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DEPARTMENT OF WATER RESOURCES

THIRTIETH BIENNIAL REPORT

OF THE

STATE ENGINEER

TO THE

GOVERNOR OF COLORADO

FOR THE YEARS

1939-1940

PROPERTY OF
STATE OF COLORADO
ENGINEERING DEPT.
DENVER.

DEPARTMENT
OF
WATER RESOURCES

Thirtieth Biennial
Report

OF THE

STATE ENGINEER

TO THE

Governor of Colorado

For the Years 1939-1940

M. C. HINDERLIDER
State Engineer

BRADFORD-ROBINSON PRINTING CO.
DENVER, COLORADO
1941

LETTER OF TRANSMITTAL

Sir:

In compliance with provisions of law, I have the honor to transmit herewith the Thirtieth Biennial Report of the activities of the Department of Water Resources for the years 1939 and 1940.

Very respectfully,
M. C. HINDERLIDER,
State Engineer.

To His Excellency,
RALPH L. CARR.
Governor

SIGNING OF REPUBLICAN RIVER COMPACT
DENVER, COLO., MARCH 19, 1941

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TABLE OF CONTENTS

Page
Letter of Transmittal 2
Personnel of Department 7

CHAPTER I.

Financial Statement 10

CHAPTER II.

Administration 12

CHAPTER III.

Water Supply, Seasonal and Crop Conditions 17

CHAPTER IV.

Storage Reservoir Dams
  New Construction 18
  Repairs 19
  Failures 20

CHAPTER V.

Meetings with Other State Agencies 21

CHAPTER VI.

Administration of Interstate River Compacts
  La Plata River Compact 21
  South Platte River Compact 22
  Rio Grande Compact 22

CHAPTER VII.

Interstate Compact Negotiations
  Republican River Compact 22

CHAPTER VIII.

Interstate River Suits
  Arkansas River Suit 30
  North Platte River Suit 30
  Laramie River Suit 30

TABLE OF CONTENTS—Continued

Page

CHAPTER IX.

Report of Hydrographic Department........ 31

CHAPTER X.

Descriptions of Stream Gaging Stations and Tables of Stream Discharges for Water Years 1939 and 1940........ 38

- Platte River Basin........ 38
- Arkansas River Basin........116
- Rio Grande Basin........157
- Colorado River Basin........208
- Green River Basin........300
- San Juan River Basin........314

CHAPTER XI.

Annual Reports of Irrigation Division Engineers for 1939-1940..361

LIST OF OFFICERS AND EMPLOYEES

State Engineering Department

M. C. Hinderlider	State Engineer
C. C. Hezmalhalch	Deputy State Engineer
L. T. Burgess	Chief Hydrographer
W. T. Blight	Chief Clerk and Draftsman
Edith Plunkett	Secretary and Stenographer
Jessie James	Stenographer
C. E. Schnurr	Hydrographer, Div. 1
Wm. E. Wagner	Hydrographer, Div. 1
F. C. Snyder	Hydrographer, Div. 2
Robt. A. Bulkley	Hydrographer, Div. 2
Jas. R. Williams, Jr.	Hydrographer, Div. 3
D. S. Jones, Jr.	Special Deputy, Div. 3

IRRIGATION DIVISION ENGINEERS

Div. No. 1—J. E. Whitten, Special Deputy	Denver
Div. No. 2—C. W. Beach	Pueblo
Div. No. 3—W. D. Carroll	Alamosa
Div. No. 4—F. S. Hotchkiss	Montrose
Div. No. 5—L. C. Finley	Glenwood Springs
Div. No. 6—B. T. Chase	Steamboat Springs
Div. No. 7—J. R. Williams	Durango

WATER COMMISSIONERS

Div. No.	Dist. No.		
1	1	J. L. Samples	Ft. Morgan
1	2	S. V. Wallace	Ft. Lupton
1	3	W. J. McAnelly	Ft. Collins
1	4	Geo. S. Kral	Loveland
1	5	C. J. Maier	Longmont
1	6	T. L. Platt, 2236 Mapleton Ave.	Boulder
1	7	A. E. Jones	Golden
1	8	C. M. Hall, 3490 So. Broadway	Englewood
1	9	J. W. Van Gorden	Morrison
2	10	M. M. Pribble, 1020 Wahsatch	Colorado Springs
2	11	J. A. Burnett	Poncha Springs
2	12	D. S. Jones	Canon City
2	13	Frank Kelling	Westcliffe
2	14	Joseph Russ	Pueblo
2	15	John Simonson	Beulah
2	16	H. W. Craig	La Veta
2	17	W. W. Wheeler	Rocky Ford
2	18	Juan A. Mestas	Aguilar
2	19	H. B. Bostick	Trinidad
3	20	Thos. Carr	Del Norte
3	21	T. M. Orman	La Jara
3	22	L. W. Sowards	Manassa
1-2	23	J. Desserich	Hartsel
3	24	Fares Gold	San Luis
3	25	John L. Charles	Crestone
3	26	Ira Colvin	Saguache
3	27	Jas. Medina	La Garita
4	28	J. Roy Hicks	Sargents
7	29	Joe T. Chambers, Com. at Large	Pagosa Springs
7	30	Geo. H. Tyner	Falfa
7	31	Albert Larsen	Tiffany
7	32	No Commissioner	
7	33	Edward C. Kennedy	Breen
7	34	Hugo Weston	Cortez
3	35	Geo. Opincar	Blanca
5	36	No Commissioner	
5	37	B. F. Long	Eagle
5	38	P. K. Bartheel	Carbondale

5	39	Chas. E. Rauman	Rifle
4	40	R. E. Robinson	Cedaredge
4	41	Dexter B. Walker	Montrose
4	42	Geo. M. Saunders	Mesa
6	43	Thos. Watkins	Meeker
6	44	Edw. A. Harrison	Craig
5	45	Frank Taughenbaugh	Rifle
1	47	Clarence Boston	Walden
1	48	R. A. Mosier	Jelm, Wyo.
2	49	No Commissioner	
5	50	No Commissioner	
5	51	P. S. Elting	Sulphur Springs
5	52	Carl Forster	Radium
5	53	Chas. Plasters	Gypsum
6	54	Frank D. Baxter	Slater
6	55	No Commissioner	
6	56	No Commissioner	
6	57	A. R. Goree	Hayden
6	58	Wilbur Rule	Steamboat Springs
4	59	Leon H. Dutemeyer (Com. at Large)	Gunnison
4	60	N. J. Clark	Redvale
4	61	Ralph G. Stocks	Paradox
4	62	Leon H. Dutemeyer (Com. at Large)	Gunnison
4	63	No Commissioner	
1	64	Pat Marsh	Sterling
1	65	John Hultquist	Wray
2	67	R. J. McGrath	Lamar
4	68	Dean S. Hainey	Ridgway
7	69	F. C. Hardman	Cedar
5	70	Geo. Maxwell Anderson	DeBeque

In addition to the foregoing, there are 96 deputy water commissioners serving in the various water districts in the state.

CHAPTER I.

FINANCIAL STATEMENT

FEES RECEIVED BY OFFICE DURING BIENNIUM

January 1, 1939, to December 31, 1940.

Water Filings	$2,851.00
Blueprints	611.75
Certifications	132.00
Examination Dam Plans	272.00
Office Labor	32.50
Recording Transfers Water Filings	1.00
Filing Transfer Decrees	8.00
Total	$3,908.25

APPROPRIATIONS

July 1, 1939, to June 30, 1941

		Transferred			Spent		Balance	
PERSONAL SERVICES:	Appropriation	From Others	To Others	Total Available	1939-40	1940-41**	1939-40	1940-41
State Engineer	$ 10,000.00	....	....	$ 10,000.00	$ 5,000.00	$ 3,749.94	$ 0.00	$ 1,250.06
Deputy State Engineer	6,000.00	....	....	6,000.00	3,000.00	2,250.00	0.00	750.00
Special Deputy, South Platte	5,000.00	....	....	5,000.00	2,500.04	1,874.97	—0.04	624.99
Special Deputy, La Plata	5,000.00	....	....	5,000.00	2,500.04	1,874.97	—0.04	624.99
Special Deputy, Rio Grande	5,000.00	....	....	5,000.00	2,500.04	1,874.97	—0.04	624.99
Special Deputies (Part Time)								
Gage Readers and Extra Help	10,000.00	$ 1,402.41	....	11,402.41	5,788.57	3,375.16	—86.16	2,325.16
Five Division Engineers	25,000.00	....	....	25,000.00	12,500.20	9,374.85	—0.20	3,124.95
Chief Hydrographer	4,800.00	....	....	4,800.00	2,400.00	1,800.00	0.00	600.00
Five Hydrographers	18,000.00	....	....	18,000.00	8,911.32	6,750.00	88.68	2,250.00
Chief Clerk and Asst. Secy., Board Examiners for Engrs. and Land Surveyors*	5,200.00	....	....	5,200.00	2,600.00	1,949.94	0.00	650.06
Two Stenographers	6,000.00	....	....	6,000.00	3,000.00	2,250.00	0.00	750.00
TOTAL	$100,000.00	$ 1,402.41	....	$101,402.41	$ 50,700.21	$ 37,124.80	$ 2.20	$ 13,575.20

*$1,200.00 to be paid from funds of Board.

**To April 1, 1941.

		Transferred			Spent		Balance	
MAINTENANCE AND OPERATION:	Appropriation	From Others	To Others	Total Available	1939-40	1940-41**	1939-40	1940-41
Contractual Services	$ 23,600.00	....	$ 150.00	$ 23,450.00	$ 11,575.23	$ 7,592.00	$ 74.77	$ 4,208.00
Supplies and Materials	9,000.00	....	1,502.41	7,497.59	3,437.85	1,763.38	259.74	2,036.62
Current Charges	2,400.00	....	175.00	2,225.00	1,023.46	684.01	1.54	515.99
Capital Outlay	2,480.00	$ 425.00	....	2,905.00	1,620.89	1,179.35	44.11	60.65
TOTAL	$ 37,480.00	$ 425.00	$ 1,827.41	$ 36,077.59	$ 17,657.43	$ 11,218.74	$ 380.16	$ 6,821.26
GRAND TOTAL	$137,480.00	$ 1,827.41	$ 1,827.41	$137,480.00	$ 68,357.64	$ 48,343.54	$ 382.36	$ 20,396.46

CHAPTER II.

ADMINISTRATION

During this biennium there were fewer matters of importance, involving administrative procedure, presented to the State Engineer for determination than during any similar period during the tenure of office of the incumbent as State Engineer. This is no doubt due to a better understanding of the irrigation code and practices by the administrative officials and water users, and reflects closer cooperation in carrying on the important functions of distribution and use of the public water supplies of the state. As usual, numerous matters of local importance were, on appeal, considered by the State Engineer. In the main, these matters involved interpretations of court decrees affecting only local interests as between users from one stream.

There is, however, a growing insistence on the part of the water users for closer supervision by the water officials over the distribution of the water supplies, in accordance with the court decrees and the irrigation statutes. This demand becomes more insistent during years of sub-normal stream flow such as have recurred in the past decade, and can be met only by an increase in field and office personnel in the State Engineer's office. Such demand cannot be adequately met by the local water commissioners and their deputies, since the problem generally involves administration and distribution as between districts, such duties falling directly upon the State Engineer, Division Engineers and Special Deputies.

Increase in the number of transmountain diversions and the transit of reservoir water from one district to another, in some cases through two or more water districts, requires constant supervision, which as before stated can be properly supervised only through an increase of personnel in the department. This condition is particularly acute in the South Platte and Arkansas River basins. In the South Platte basin, the administration of transmountain water vitally affects the water supplies of several water districts, and the complexities of the daily problems of administration justify the full time services of a special deputy for this particular work. Requests for additional appropriations to meet these demands have been made to the Budget Commissioner and will also be presented to the proper legislative committees.

Each year brings new adjudication proceedings, adding vast numbers of decrees which must be administered; this in turn imposes on this office and the Division Engineers additional work required for the indexing and filing of these decrees, and the preparation of new registers of priorities, which are necessary for administrative purposes.

Increased diversions by pumping for irrigation purposes have caused numerous inquiries as to the legal status of such diversions, and complaints from senior appropriators claiming injury as a result of such pumping. This problem has become more acute with the shrinkage in recent years of the natural runoff, and the solution thereof, even in a reasonable degree, will tax the ingenuity and ability of the engineering and legal professions of our state and the wisdom and tolerance of the water users thereof. In the absence of legislation definitely authorizing this department to exercise administrative control over pumping plants which do not pump water directly from the visible flow of a stream course, it is the view of the department that no attempt should be made by the water officials to make determinations of fact, nor to administer the operations of pumping plants.

Laramie River Administration

Following the decision of the District Court of Larimer County in 1938, directing the water officials to administer the waters of the Laramie River in conformity with the Colorado court decrees, orders were issued to all owners of ditches to install suitable headgates and measuring devices before any diversions would be permitted during the season of 1939. Such orders were complied with and the installations were made under the supervision of this office. In order to accurately ascertain when Colorado's allocation of 39,750 acre feet, as determined by the U. S. Supreme Court, had been diverted, it was necessary to employ three special deputies to assist the water commissioner of District 48. The six transmountain ditches were equipped with proper measuring devices and automatic recorders. Readings and records were made twice daily of diversions by all ditches not equipped with automatic recorders. The total of 39,750 acre feet allowed by the decree of the U. S. Supreme Court having been diverted on June 18, 1939, all headgates were closed and properly posted.

The same procedure was followed during the season of 1940, and the the total of 39,750 acre feet having been diverted on June 16th, all headgates were closed and posted. As in 1939, the cost of administration was financed almost entirely from funds of the Colorado Water Conservation Board, since no funds were available from the appropriations of this department. Request has been made for sufficient funds to meet the cost of administration of the Laramie River during the next biennium.

Sand Creek Administration

Sand Creek is a small interstate stream rising in Colorado and flowing in a northerly direction into Wyoming. Theoretically, this stream is a tributary of the Laramie River in Wyoming, but, due to the fact that the waters thereof are all consumed before reaching the Laramie River, the Supreme Court of the United States has declared that it is but nominally a tributary of the Laramie River.

For many years more or less friction has occurred between the water users along this stream in both states as a result of conflicting claims and counter-claims. In an attempt to adjust these difficulties, water users in both states, with the assistance of the State Engineers and the Attorneys General of the two states, agreed to a temporary plan of interstate administration for 1938 through the services of temporary deputies, which was eminently satisfactory to the water users in both states. This agreement provided that all diversion ditches should be equipped with proper measuring devices; that records of daily diversions of water would be kept and exchanged between the two states.

In March, 1939, the water users in both states entered into a new agreement providing for the administration of the waters of Sand Creek, which is in the nature of a permanent agreement, or the basis for a permanent agreement, which was approved by the State Engineers and Attorneys General of the two states. The waters of the stream were administered in 1939 and 1940 without friction, and it is hoped that, through this understanding and mutual cooperation, future friction on this stream may be eliminated.

This department for some years has been seriously handicapped by lack of adequate appropriations. This condition, as has been stated, is becoming increasingly acute, and is brought definitely to the attention of yourself and the water users, with the hope that the appropriations to the department may be increased in an amount commensurate with the demands this department is called upon to meet.

DECISIONS ON APPEALS TO STATE ENGINEER

In June of 1939 an appeal was made to the State Engineer requesting a definite construction of certain decrees in Water District No. 4. This involved the administration of the original priorities of the Big Thompson Ditch and Manufacturing Company's ditch and several transfers from these priorities to other ditches in the District. Following a hearing, with all interested parties represented in person or by counsel, due to the urgent nature of the problem as a result of extreme drought, a compromise without prejudice was agreed to as a temporary solution, with the understanding that a definite ruling would be entered before the next irrigation season. Following this hearing, each interested party was requested to file written briefs and, after due consideration of these in collaboration with the Attorney General, definite written instructions were issued to the water commissioner for his guidance in administering the decrees in question. Since no appeal has been made to the district court, it is assumed that the matter has been amicably adjusted. Copy of the ruling, too voluminous to include here, is available in the files of the office for consultation.

In November, 1940, a written appeal was filed by the Cache la Poudre Water Users Association from an order issued October 31st by the Acting Division Engineer of Irrigation Division No. 1 to the Water Commissioner of District No. 3. Said order limited diversions in District No. 3 to priorities senior to October 1, 1888, for the purpose of supplying water for senior priorities in District No. 1. The appeal was dismissed without a hearing, as it appeared there was no basis for said complaint, on which action no appeal to the court was made.

On November 12, 1940, a hearing was held on an appeal by the North Poudre Irrigation Company from an order of the Water Commissioner of District No. 3. Said order denied the claim of plaintiff to the alleged ownership of the water then stored in Halligan Reservoir, for the reason that the water had been stored subject to the rights and demands of senior appropriators, one of which, the Warren Reservoir, had then made demand. Following the hearing, the appeal was withdrawn to permit further conferences between the local interests involved, since which no further objections or requests have been filed by appellant with the State Engineer.

In June, 1940, an appeal was made by the Town of Erie from the action of the Water Commissioner of District No. 6, refusing to allow water diverted by the Town through the South Boulder Canon Ditch, for direct irrigation, to be temporarily stored in the Town's reservoir. Following a hearing before the State Engineer, the action of the Water Commissioner was upheld upon his interpretation of the decision of the Supreme Court in the case of Greeley and Loveland Irrigation Co. vs. Farmers' Pawnee Ditch Co., reported in 58 Colo., page 462, in which it was held that water decreed for direct use may not be stored, even temporarily, for future use. Appeal by the Town was taken to the District Court, which enjoined the water officials from interfering with such diversion and storage. Since the water officials are nominal defendant in such matters, and no adverse appropriators having entered an appearance, it is considered that the ruling by the district court does not in any manner change the rule laid down by the Supreme Court, i.e.. that water decreed for direct irrigation may not be stored for future use.

On June 29, 1940, a hearing was held before the State Engineer on an appeal by the Weldon Valley Ditch Company from the action of the Water Commissioner of District No. 1 closing the headgate of the Weldon Valley Ditch to supply the senior priority of the Schneider Ditch in District No. 64. The appeal was based on the contention that such action resulted in a waste of water, since little, if any, of the water then being diverted by the Weldon Valley Ditch, if discontinued, would reach the headgate of the Schneider Ditch. As no concrete or conclusive evidence was presented in support of this contention, upon request of attorney for the appellant, the appeal was withdrawn without prejudice.

On July 25, 1940, the Fort Lyon Canal Company appealed to this office from the action of the Water Commissioner of District No. 17 and the Division Engineer, permitting the Las Animas Consolidated Canal Company to intercept and divert under its Jones Ditch priority, water which the Fort Lyon Canal Company was being required to pass down the river to satisfy the senior priorities of the Lamar and the Las Animas Town Ditch, which priorities are junior in date to those of the Jones Ditch priority. Based largely upon our former rulings on contentions which had theretofore arisen between the Ft. Lyon and Las Animas Consolidated Companies with respect to the operation of the Jones' ditch decree, which rulings have been sustained by the courts, the State Engineer on July 27, 1940, directed the Division Engineer to prevent any diversions by the Las Animas Consolidated Canal Company, by virtue of its Jones Ditch priority for 22.3 second feet, when any part of the water represented by the latter decree is being taken away from the Ft. Lyon Canal Company to satisfy priorities senior in date to the first priority of the Ft. Lyon Canal. From this ruling, the Las Animas Consolidated Canal Company has appealed to the district court, which has as yet made no finding.

On March 20, 1940, the Peterson, Carr and Barrow Ditch Company and the Patterson Ditch Company appealed to the State Engineer from a ruling of Division Engineer Hotchkiss, which ruling, after full consideration of the voluminous record submitted by the plaintiff ditch companies, was upheld by the State Engineer on April 27, 1940, and from which no appeal has been taken.

In April, 1935, Miss Agnes Zimmerman filed a suit against the Water Commissioner of District No. 3, the Deputy State Engineer, and the State Engineer, alleging among other things that, as owner of a decreed water right for Zimmerman Lake, she has sustained heavy pecuniary damages as a result of alleged illegal acts on the part of the water officials.

The suit was filed in the Denver District Court and, on application for change of venue, was transferred to the District Court of Larimer County. Upon motion as to the complaint, and upon sustaining of a demurrer on behalf of the defendants, the cause was twice appealed to the State Supreme Court. The cause was finally remanded to the District Court for trial upon two of the original four causes of action, namely, that of alleged conspiracy upon the part of the defendant water officials to injure the right of the plaintiff and then refusal to deliver water when allegedly available for the decree of Zimmerman Lake. Upon trial before the Court in March, 1941, the cause was dismissed upon finding of the facts, and application for rehearing denied.

CHAPTER III.

WATER SUPPLY, SEASONAL AND CROP CONDITIONS

In the South Platte drainage basin, excessive rains resulting in heavy runoff during the fall of 1938 permitted the storage of all available water until May 3, 1939, without administrative limitation. Heavy runoff in March, 1939, was exceptional and caused peak discharges for the year in several streams and added materially to storage. This exceptional runoff was the result of a heavy snow cover on frozen ground in the lower elevations, and to above-normal temperatures during this period.

Above-normal storage very materially supplemented the deficient runoff during the growing season of 1939, without which a serious deficiency in crops would have resulted.

Crops, as to yield and quality, in general were about 70 per cent of normal but in some sections were only 50 per cent of normal.

Sub-normal stream flow conditions were also reflected in transmountain diversions, which delivered but 71 per cent of the amount delivered in 1938.

The quantity of water in storage on May 1, 1940, was 42 per cent of the amount in storage on May 1, 1939, and the usual increase in storage during June was lacking.

Stream flow during the year of 1940 was one of the lowest of record, which, together with the sub-normal storage on May 1st and excessive temperatures during June, July and the first part of August, resulted in a situation without precedent in the South Platte drainage basin. However, most timely and beneficial rains immediately following this period resulted in crops which exceeded expectations and were, on the average, above those of 1939 as to yield and quality.

In the Arkansas River drainage basin, prospects and conditions in the fall and winter of 1938-39 were excellent, and indicated a year of normal runoff. Lack of precipitation and excessive temperatures during the growing season of 1939 changed this favorable outlook to a year of deficient water supply, which resulted in another year of generally poor crop yields.

At the beginning of the irrigation season in 1940, the quantity of water in storage was below normal, and the water content of the snow in the higher elevations was but 50 per cent of normal. During April and May, above-normal precipitation was of benefit to all crops. Lack of normal precipitation and extremely low runoff during the remainder of the growing season, however, resulted in poor crop returns.

In the San Luis Valley during the season of 1939, conditions were abnormal in several respects. Storage at the beginning of the season was above normal, with stream flow and precipitation during the growing season below normal. As a result, many ditches were without water after June 1st, which caused crop losses of from 25 to 50 per cent. Killing frosts during May and June caused heavy damage to alfalfa and the potato and pea crops.

Conditions in the season of 1940 were without precedent, except in 1934. Storage available was the lowest of record, with the exception of 1934. Stream flow was but 42 per cent of normal, being less than that of 1934, and approaching that of the record low year of 1902. The shortage in stream flow was relieved to a considerable extent by pumping from underground water. It has been reported that some 550 pumping plants were in operation in the valley, which, it has been estimated, pumped approximately 200,000 acre feet during the season of 1940.

Crops were fair and, in general, were better than in 1939, although prices for potatoes in particular were poor.

Conditions on the western slope of the state during the season of 1939 were in general similar to those on the eastern slope. There was an above-normal amount of water in storage at the beginning of the season, but low stream flow and lack of precipitation during the season resulted in serious crop losses.

During 1940, although there was less than the average storage available, and in many sections the lowest stream flow of record occurred, crops were better than in 1939, due to beneficial rains during the growing season.

CHAPTER IV.

STORAGE RESERVOIR DAMS

New Construction

The construction of new storage reservoir dams during the biennium kept pace with construction in previous years, and some of those under construction, or which were completed within the past two years, rank favorably as to size, cost and importance, with older structures.

The name, height and capacity of the more important of these are as follows:

Name	Location	Height of dam in feet	Capacity of Res. in ac. ft.
John Martin[1]	Arkansas River	150	655,000
Granby[2]	Colorado River	223	496,000
Green Mountain[2]	Blue River	270	152,000
Vallecito[2]	Pine River	125	126,000
Groundhog	Groundhog Creek	139	23,000
Stillwater	Yampa River	70	6,000
Fruit Growers[2]	North Fork Gunnison	53	4,300
Hallenbeck	Kannah Creek	40	993
Onion Valley	Crystal Creek	63	5,000
Silver Lake	Boulder Creek	15	675
Milton Seaman	North Fork Poudre	100	4,600
Smith Lake	Clear Creek	22	361

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[1] Being constructed by the Corps of U. S. Engineers.

[2] Being constructed by the U. S. Bureau of Reclamation.

In addition to the foregoing dams, plans and specifications were approved for the construction of the following dams, many of which were completed:

Name	Location	Height of dam in feet	Capacity of Res. in ac. ft.
Jas. W. Dennis	Dry Creek	17	155
Albert Calkum	Trib. Rush Creek	15.3	12.65
Rule Creek	Rule Creek	32	
John L. Jones	Furnish Creek	40	328
Fruita No. 4	North East Creek	35	54.5
L. G. Kinney	Springs	19.5	39.75
G. H. & S.	North East Creek	32	150.2
Brett Gray	Trib. Little Horse Cr.	23.5	263.7
Chase Gulch Lake	Chase Gulch	22.5	
Fall Creek	Fall Creek	21	146
J. C. Higbee	Trib. Big Sandy	18	12
C. H. Parke	Trib. Beaver Creek	25.5	74
Fuchs	Pinos Creek	21	189
Ryan	Bennett Creek	41	458
Seidensticker No. 6	Trib. Sellers Gulch	21	16
Schutte Gulch	Schutte Gulch	17	25
Smizer Gulch	Smizer Gulch	15	10
Gagliardi	Barney Creek	20	284
Hidden Draw	Natural Runoff	15	12
Crescent Lakes 1 and 2	South Derby Creek	13	237 and 137
Tract 1828		9.25	73
Skyscraper	Woodland Creek	22	146
Luark	Sunnyside Creek	27	86
McDonough	Los Pinos Creek	57	519
California Park	Elk Head Creek	36	4,000
Full Moon	Springs	13	55
Cortez	Trib. Dolores River	37	70

Plans and specifications were approved for repairs to, or enlargement of, the following dams:

Name	Location	Height of dam in feet	Capacity of Res. in ac. ft.
Summit	Lost Canon Creek	20	4,793
Juniata	Kannah Creek	30	336
Bauer Lake No. 1		26	130
Bauer Lake No. 2		35	1,073
Hughes	Three Mile Creek	30	1,503
Glacier Lake	North Boulder Creek	21	108
Pleasant Valley	St. Vrain Creek	19	3,076
Noonen No. 2	Deer Trail Creek	20	1,500
Casto	Gill Creek	23	633
Park	Surface Creek	51	3,240
Wakeman		22.5	122
Goose Lake	North Boulder Creek	35	1,036
Island Lake	North Boulder Creek	16	372

Practically all storage dams were inspected within the biennium, as a result of which repairs to a number of dams were ordered made. These generally consisted of repairs to spillways, outlets, riprap, drains and measuring devices.

At the large North Sterling Reservoir, a new inlet was constructed and the downstream slope of the dam was reinforced with additional embankment material and the riprap repaired.

Important repairs in the way of a drainage system and enlargement of spillway were made at the Juanita Dam on Kannah Creek.

The entire water face of Pleasant Valley Dam was reconstructed and riprapped, and the Noonen Dam, which failed in the great flood of 1935, was rebuilt.

Glacier Lake Dam was strengthened and raised and spillway enlarged.

The drainage system below Barr Lake Dam was repaired and enlarged.

New trash racks were installed at Denver's Kenwood flood control dam on Cherry Creek.

Extensive improvements were made in the spillway of the St. Charles No. 3 Dam, owned by the Colorado Fuel and Iron Company.

Up to July 1, 1940, the following numbers of small earth dams were reported as having been constructed in the state by the designated federal agencies:

	Number	Av. Capacity in Ac. Ft.
Forest Service	212	6.17
Soil Conservation Service	504	3.00
Taylor Grazing Act Administration	106	8.05
Agricultural Adjustment Act Agencies	2,144*	Unknown
	2,966	

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*Incomplete list.

The total number of storage reservoirs in Colorado, according to the records of the State Engineer's office as of October 1, 1940, is 1,780, with a total capacity of 3,624,205 acre feet. Of this number, 379 are too small to come under state supervision requiring approval of plans, which leaves a total of 1,401 storage reservoir dams which are under state control. This total number includes but a few of the reported total number of 2,966 reservoir dams built by federal agencies.

The failure of but two dams coming under state supervision occurred within the biennium, these being the Moonshine and Ireland No. 5 small earth dams located on Box Elder Creek near Denver.

Resurveys were made under the supervision of this office to determine the capacities of Halligan and Fossil Creek Reservoirs in Water District No. 3.

Legislation to control construction of dams to be used exclusively for storing water for livestock uses, is pending in the present Legislature. Such legislation would authorize and limit such construction to dams to a maximum height at spillway level of 15 feet, and reservoir capacity of 10 acre feet, and would require that such structures be built under the supervision of the State Engineer.

CHAPTER V.

MEETINGS WITH OTHER STATE AGENCIES OF WHICH THE STATE ENGINEER IS A MEMBER

Within the biennium, the State Engineer attended all but two of the numerous meetings of the Colorado Water Conservation Board; he attended a number of the meetings of the State Planning Commission, particularly those held for discussion of water conservation measures and the building program for state institutions.

Due to absence from the office, it was not possible to attend all the meetings of the Board of Examiners for Engineers and Land Surveyors.

No meetings of the Irrigation District Commission, nor of the Board of Conservation of Colorado, were held, since no applications for the formation of districts under these Acts were received.

Various regional meetings of the National Resources Planning Board were also attended.

In addition, the State Engineer attended flood control hearings on Bear and Cherry Creeks, the Fountain and South Platte Rivers, held by the U. S. Corps of Engineers. Attendance at similar hearings at Grand Junction and Durango was not possible due to pressure of other matters. He attended hearings in Estes Park before a committee of U. S. Senators on proposed legislation to increase the boundaries of the Rocky Mountain National Park; also meetings of the National Rivers and Harbors Congress in Washington and Chicago, and a meeting of the water users along the La Plata River in Colorado and in New Mexico, with representatives of the U. S. Bureau of Reclamation, to discuss plans for water conservation and flood control.

Several meetings with water users' associations throughout the state were attended and no little time was expended on inspection trips to the Stillwater Dam on Yampa River, which was under construction during the biennium. These inspections, and the unusual number of conferences in connection therewith, were largely due to serious difficulties encountered as a result of faulty foundations at this dam discovered after construction was initiated, which required a relocation of the dam and important changes in the original plans therefor.

CHAPTER VI.

ADMINISTRATION OF INTERSTATE RIVER COMPACTS

La Plata River Compact

Although the water supply of the La Plata River in 1939 and 1940 was one of the lowest of record, no unusual difficulties of administration arose, thanks to the efficient work of Special Deputy J. R. Williams and the cooperation of the officials of New Mexico. The usual complete reports on water supply, water uses and administration of the compact for the biennium are on file in this office.

South Platte Compact

This compact, with the State of Nebraska, was administered without friction.

Rio Grande Compact

Administration of the Rio Grande Compact, which was signed at Santa Fe, New Mexico, on March 18, 1938, and which became effective on May 31, 1939, was initiated on January 1, 1940. The first and second annual meetings of the Compact Commission were held at El Paso and Santa Fe, respectively. In addition, six called meetings were held by the Commission in Denver, Monte Vista, Santa Fe and El Paso. Rules and regulations to govern the deliberations and activities of the Commission were adopted at El Paso on December 19, 1939. The Commission employed a secretary, effective January 1, 1940, to collect and correlate factual data for the Commission required for the administration of the compact. At the end of the calendar year 1940, the secretary's annual report disclosed that Colorado had an accrued debit in its 1940 deliveries of water at the Colorado-New Mexico stateline, of 19,300 acre feet, and New Mexico an accrued debit of 55,900 acre feet at San Marcial, and that the annual release of water from project storage in the Elephant Butte Reservoir was 56,900 acre feet less than the normal release of 790,000 acre feet. This condition was due to sub-normal runoff from the Rio Grande basin above Elephant Butte Reservoir. The annual report of the secretary for 1940 is on file in this office.

CHAPTER VII.

INTERSTATE COMPACT NEGOTIATIONS

Following a conference of the Governors of Colorado, Kansas and Nebraska at McCook, Nebraska, on December 22, 1939, to discuss the need for an interstate compact or agreement covering the waters of the Republican River basin, the Governors appointed an interstate Commission to make an equitable division of the waters of that basin between the three states. The State Engineer of Colorado was designated to represent Colorado on this Commission. The Commission held eight meetings in Denver, Lincoln and Topeka, and on March 19, 1941, signed a compact dividing the waters of that stream basin. A copy of the compact, together with my letter transmitting the same to you follows:

March 20, 1941.

His Excellency, Ralph L. Carr
Governor of Colorado
Denver, Colorado

My Dear Governor Carr:

I have the honor to transmit herewith for your consideration and further disposition two original drafts of a compact, which it is believed equitably apportions the waters of the Republican River basin between the States of Colorado, Kansas and Nebraska. This compact, the result of several months of investigations, study and eight conferences between the commissioners, their legal advisers, and water users of the three states, was signed at Denver on March 19, 1941, by the three compact commissioners appointed by the Governors of the signatory states.

Since it appears that no interest of the federal government, by virtue of ownership of property or of any responsibility as a result of interstate or international treaties, or obligation to Indian tribes, is involved, no representative of the government was invited to participate in the deliberations of the Commission, nor to approve its findings and conclusions.

In its deliberations, the Commission gave careful consideration to the report of the Division Engineer, Corps of U. S. Engineers, dated February 27, 1940, to the Chief of Engineers, covering the comprehensive study by the Corps on flood control in the Republican River basin and related matters, and to preliminary and progress reports by the U. S. Bureau of Reclamation, which is conducting a comprehensive and detailed investigation of the land and water resources of this basin; also to a voluminous report of the Bureau of Agricultural Economics of the U. S. Department of Agriculture on the underground water resources of the Republican River basin and their availability for beneficial application to the future development of the basin.

While the absence of extensive development of the natural resources of the Republican River basin tended to simplify the problem of allocations of the waters therein, the Commission was confronted with other difficult problems involving a multiplicity of primary and secondary tributary streams, which are largely dissociated in their possibilities for use, and which, due to their erratic character, will require extensive regulatory works throughout the basin.

The compact allocates to Colorado, its citizens, agencies, associations and corporations all of the surface and underground water supplies originating in Colorado within the Frenchman and Red

Willow Creek drainage basins; about 23 per cent of those of the North Fork of the Republican; 80 per cent of those of the Arikaree River; 77 per cent of those of the South Fork of the Republican; and an estimated 100 per cent of those of the Beaver Creek basin, which it is believed is the limit of consumptive use which it is practicable to make in Colorado of the waters from these stream basins.

It should be borne in mind that these allocations of water are for beneficial **consumptive** use and do not limit the right of Colorado, or any of its agencies, to divert and apply much greater quantities of water than the amounts allocated by the compact.

The compact, when ratified by the Legislatures of the signatory states and consented to by the Congress of the United States, provides the basis for an orderly planning of the regulation, conservation, and efficient use of the waters of the basin, unhampered by uncertainties arising out of interstate conflicts or misunderstandings.

As hereinabove stated, it is believed that the compact equitably apportions between the signatory states all the waters of the Republican River basin. As commissioner for the State of Colorado, I therefore respectfully recommend that this compact be transmitted with a special message to the present General Assembly of our state for ratification.

In conclusion, I desire to express to you my deep sense of appreciation for the confidence reposed in me as the official representative of our state to carry out these important negotiations, and for the invaluable assistance from you as a result of your ripe experience in these interstate matters. I also desire to acknowledge the loyal support and valuable aid received from Attorney General Gail L. Ireland, who was my legal adviser during the final preparation of the compact, to Clifford H. Stone, Esquire, for valued suggestions; to Mr. A. C. Stiefel, assistant chief engineer of the Colorado Water Conservation Board, who prepared the map of the Republican River basin which is made a part of the compact, and to Senators Burt Ragan and Harry M. McKinney, and Representatives C. J. Buchanan and Harold A. Tabor, who have at all times given me sympathetic and loyal support.

Titles for Senate Bill No. 42, by Senators Ragan and McKinney, and House Bill No. 186, by Representatives Buchanan and Tabor, have heretofore been introduced in the present Legislature, under which the compact, if approved by you, may be properly presented to the Legislature for final disposition.

Respectfully,

M. C. HINDERLIDER,
Republican River Compact Com'r for Colorado.

REPUBLICAN RIVER COMPACT

The States of Colorado, Kansas and Nebraska, hereinafter designated as Colorado, Kansas and Nebraska, respectively, desiring to remove any and all causes, present or future, which might lead to controversies with respect to use of the waters of the Republican River Basin, and being actuated by considerations of interstate comity, and by a desire to effectuate an equitable division of the waters of the Republican River Basin and the efficient beneficial consumptive uses thereof, and in consideration of the mutual advantages resulting therefrom within their respective boundaries, and pursuant to Acts of their respective Legislatures, have resolved to conclude a compact for the attainment of these purposes, and to that end, through their respective Governors, have named as their respective commissioners for the negotiating of such a compact:

M. C. Hinderlider, for the State of Colorado.

George S. Knapp, for the State of Kansas, and

Wardner G. Scott, for the State of Nebraska,

who have agreed upon the following Articles, to-wit:

ARTICLE I.

The Republican River Basin, hereinafter referred to as the "Basin," is herein designated to mean all the area in the States of Colorado, Kansas and Nebraska, which is naturally drained by the Republican River and all of its tributaries to its junction with the Smoky Hill River in Kansas, a map of which signed by the commissioners hereinabove named, is attached hereto and by reference made a part thereof.

The Republican River and tributaries thereof within the Basin, as hereinabove defined, are not navigable, and all users of water of a consumptive nature, as hereinafter defined, wherever such uses may occur within the Basin, shall constitute paramount uses.

ARTICLE II.

The term "Virgin Water Supply", as herein used is defined to be the water supply within the Basin undepleted by the activities of man.

The term "Beneficial Consumptive Use" is herein defined to be that use by which the natural water supply of a drainage basin is consumed by the activities of man, and shall include water consumed by evaporation from reservoirs, canals, ditches and irrigated areas.

Beneficial consumptive use shall be the basis and measure of the right to divert and use the natural waters of the Basin, by the citizens, agencies, associations and corporations of the signatory states, and upon this principle the following allocations of water herein made are predicated.

ARTICLE III.

There is hereby allocated to Colorado for use annually a total of fifty-four thousand one hundred (54,100) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter described, and is subject to such quantities being physically available from those sources:

North Fork of the Republican River drainage basin, 10,000 acre feet;

Arikaree River drainage basin, 15,400 acre feet;

South Fork of the Republican River drainage basin, 25,400 acre feet;

Beaver Creek drainage basin, 3,300 acre feet;

In addition thereto there is hereby allocated to Colorado for use annually the entire water supply of the Frenchman and Red Willow Creek drainage basins in Colorado.

There is hereby allocated to Kansas for use annually a total of one hundred ninety thousand three hundred (190,300) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter described and is subject to such quantities being physically available from those sources:

Arikaree River drainage basin, 1,000 acre feet;

South Fork of the Republican River drainage basin, 23,000 acre feet;

Driftwood Creek drainage basin, 500 acre feet;

Beaver Creek drainage basin, 6,400 acre feet;

Sappa Creek drainage basin, 8,800 acre feet;

Prairie Dog Creek drainage basin, 12,600 acre feet;

The main stem of the Republican River at the Nebraska-Kansas state line, 138,000 acre feet, provided that Kansas shall have the right to divert all or any portion thereof at or near the Town of Guide Rock, Nebraska.

And in addition thereto there is hereby allocated to Kansas for use annually the entire water supply originating in the Basin below the Nebraska-Kansas state line.

There is hereby allocated to Nebraska for use annually a total of two hundred thirty-four thousand five hundred (234,500) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter described and is subject to such quantities being physically available from those sources:

North Fork of the Republican River drainage basin in Colorado, 11,000 acre feet;

Frenchman River drainage basin in Nebraska, 52,800 acre feet;

Rock Creek drainage basin, 4,400 acre feet;

Arikaree River drainage basin, 3,300 acre feet;

Buffalo Creek drainage basin, 2,600 acre feet;

South Fork of the Republican River drainage basin, 800 acre feet;

Driftwood Creek drainage basin, 1,200 acre feet;

Red Willow Creek drainage basin in Nebraska, 4,200 acre feet;

Medicine Creek drainage basin, 4,600 acre feet;

Beaver Creek drainage basin, 6,700 acre feet;

Sappa Creek drainage basin, 8,800 acre feet;

Prairie Dog Creek drainage basin, 2,100 acre feet;

The North Fork of the Republican River in Nebraska and the main stem of the Republican River between the Colorado-Nebraska state line and the Nebraska-Kansas state line, and from the small tributaries thereof, 132,000 acre feet.

The use of the waters hereinabove allocated shall be subject to the laws of the state to which the allocations are made. No state shall have the right to dictate the method of distribution or place of use of the waters herein allocated to another state.

ARTICLE IV.

The specific allocations in acre feet made to each signatory state by Article III are derived from the computed average annual virgin water supply originating in the following designated drainage basins in the amounts shown:

North Fork of the Republican River drainage basin in Colorado, 44,700 acre feet;

Arikaree River drainage basin, 19,610 acre feet;

Buffalo Creek drainage basin, 7,890 acre feet;

Rock Creek drainage basin, 11,000 acre feet;

South Fork of the Republican River drainage basin, 57,200 acre feet;

Frenchman River drainage basin, 98,500 acre feet;

Blackwood Creek drainage basin, 6,800 acre feet;

Driftwood Creek drainage basin, 7,300 acre feet;

Red Willow Creek drainage basin, 21,900 acre feet;

Medicine Creek drainage basin, 50,800 acre feet;

Beaver Creek drainage basin, 16,500 acre feet;

Sappa Creek drainage basin, 21,400 acre feet;

Prairie Dog Creek drainage basin, 27,600 acre feet;

The North Fork of the Republican River in Nebraska and in the main stem of the Republican River between the Colorado-Nebraska state line and the Nebraska-Kansas state line and the small tributaries thereof, 87,700 acre feet.

Should the future computed virgin water supply of any source vary more than ten (10) per cent from the virgin water supply as hereinabove set forth, the allocations herein made from such source shall be increased or decreased in the relative proportions that the future computed virgin water supply of such source bears to the computed virgin water supply used herein.

ARTICLE V.

The judgment and all provisions thereof in the case of Adelbert A. Weiland, as State Engineer of the State of Colorado, et al, v. The Pioneer Irrigation Company, decided June 5, 1922, and reported in 259 U. S. 498, affecting the Pioneer Irrigation ditch or canal, are hereby recognized as binding upon the signatory states hereto and the people of each of said states, and Colorado, through its duly authorized officials, shall have the perpetual and exclusive right to control and regulate diversions of water at all times by said canal in conformity with said judgment.

The water decrees heretofore adjudicated to said Pioneer Canal by the District Court of Colorado in the amount of fifty (50) cubic feet per second of time is included in and is a part of the total amounts of water hereinbefore allocated to the States of Colorado and Nebraska.

ARTICLE VI.

A lower signatory state, its citizens, agencies, associations and corporations, shall have the right to construct or participate in the future construction and use of any storage reservoir or diversion works in an upper state for the purpose of regulating water herein allocated to such lower state, provided that such right is subject to the rights of the upper state, its citizens, agencies, associations and corporations, to control, regulate and use the waters herein allocated to it.

ARTICLE VII.

A lower signatory state, its citizens, agencies, associations and corporations, shall have the right to acquire in an upper state by purchase, or through exercise of the power of eminent domain, such easements and rights of way, for the construction, operation and maintenance of storage reservoirs, and of appurtenant works, canals and conduits, required for the enjoyment of the privileges granted by Article VI; provided, however, the grantees of such rights shall pay to the governmental agencies in which such works are located, each and every year during which such rights of way are occupied for such purposes, a sum of money equivalent to the average annual amount of taxes assessed against the lands and improvements so occupied, based upon the ten years preceding the use of such lands, in reimbursement for the loss of taxes to said governmental agencies.

ARTICLE VIII.

Should any facilities be constructed in an upper state under the provisions of Article VI, such construction and the operation of such facilities shall be subject to the laws of such upper state.

Any repairs to or replacements of such facilities shall also be made in accordance with the laws of such upper state.

ARTICLE IX.

It shall be the duty of the three signatory states to administer this compact through the official in each state who is now or may hereafter be charged with the duty of administering the public water supplies, and to collect and correlate through such officials the data necessary for the proper administration of the provisions of this compact.

ARTICLE X.

The physical and other conditions peculiar to the Republican River basin constitute the basis for this compact, and none of the signatory states hereby concedes that this compact establishes any general principle or precedent with respect to any other interstate stream.

ARTICLE XI.

This compact shall become operative when ratified by the Legislatures of each of the signatory states and consented to by the Congress of the United States. Notice of ratification by the Legislature of a state shall be given by the Governor of such state to the Governors of the other states, and the President of the United States is requested to give notice to the Governors of the signatory states of consent by the Congress of the United States.

IN WITNESS WHEREOF, the Commissioners have signed this compact in quadruplicate original, one of which shall be deposited in the archives of the Department of State of the United States of America and shall be deemed the authoritative original, and of which a duly certified copy shall be forwarded to the Governor of each of the signatory states.

Done in the City of Denver, in the State of Colorado, on the nineteenth day of March, in the year of our Lord, one thousand nine hundred and forty-one.

M. C. HINDERLIDER,
Commissioner for Colorado.
GEORGE S. KNAPP,
Commissioner for Kansas.
WARDNER G. SCOTT,
Commissioner for Nebraska.

The compact is now before the Legislatures of the three states for ratification.

CHAPTER VIII.

INTERSTATE RIVER SUITS

During the biennium, testimony in the case of Colorado v. Kansas, over the waters of the Arkansas River, was concluded, and the Stipulation of 1933 between the states, predicated upon the construction of the Caddoa (Jno. Martin) dam was made a part of the record as a joint exhibit of both states.

During 1940, negotiations have been carried on between representatives of the two states and their legal and engineering advisers, in an attempt to formulate a Consent Decree to terminate pending litigation and, so far as possible, eliminate future controversies between the two states. It is hoped and expected that these negotiations will be concluded during the calendar year 1941.

The case of the State of Nebraska, Complainant, v. the State of Wyoming, Defendant, the State of Colorado, Impleaded Defendant, and the United States of America, Intervener, over the waters of the North Platte River, was active during the biennium, —with the State of Colorado submitting its evidence at hearings held in May and October of 1940. Testimony in this case, thus far submitted by all parties in interest before the Honorable Michael J. Doherty, Special Master, amounts to approximately 25,000 pages and more than 1000 exhibits. The next hearing is scheduled to start April 15, 1941, at which time it is expected that the testimony in behalf of the State of Colorado will be completed. Negotiations between the Governors and Attorneys General of the three states have been undertaken, with a view to settling the controversy between the states by consent decree or compact. After the direct testimony has been concluded, it is expected that these negotiations will be resumed, but may be deferred until completion of rebuttal testimony.

Litigation initiated by the State of Wyoming over the Laramie River, which involved a citation for contempt, has been settled by a decision of the United States Supreme Court. Under this decision, the State of Colorado is entitled to divert a total of 39,750 acre feet of water per annum from the Laramie River. Under a decision of the District Court of the State of Colorado, such total diversions must be made in cubic feet per second by the meadowland and transmountain ditches in accordance with their state decrees. This decision has resulted in an attempt to divert as much water as possible and as rapidly as possible, with the result that the total allocation to the state is reached, and all diversions are required to cease, about the middle of June of each season. Negotiations are under way between the owners of the meadowland and transmountain ditches, with the view of allocating to each group an equitable share of the total quantity specified by the United States Supreme Court, to the end that the most efficient use of Colorado's share of the river may be secured. It is hoped that this agreement between the two groups of opposing interests will be concluded and put into effect before the irrigation season of 1941.

CHAPTER IX.

REPORT OF HYDROGRAPHIC DEPARTMENT

By L. T. Burgess, Chief Hydrographer.

Another two years of below-normal stream flow occurred in the past biennium, with stream discharges in 1940 considerably below those for the water year of 1939. Deficiencies in winter and spring snow supplies, together with lack of summer precipitation, produced less runoff at several stream gaging stations than during the year of 1934.

The average flow at 27 representative stream gaging stations throughout the state during the 1939 water year was 72 per cent of normal, and 58 per cent of normal in 1940. These figures are based on the average of 35 years of recorded stream flow covering periods of from 12 to 57 years.

A rather unusual condition was the absence of floods during 1939 and 1940. Peak flows in 1939 were about twice as great as those in 1940. Such flows occurred in the South Platte River in 1939 as a result of snows over the foothills and plains regions. Similar flows occurred in March, 1939, between Denver and the Colorado-Nebraska state line. Timely rains in the latter part of September, 1940, replenished depleted stream flow and resulted in the saving of crops, without which serious losses would have occurred.

A total of 208 official stream gaging stations are maintained in Colorado in the following drainage basins:

North and South Platte River basins	52
Arkansas River basin	26
Rio Grande River basin	35
Colorado River basin	57
Green and Yampa River basins	8
San Juan River basin	30
	208

In addition, approximately 10 other stations, for which the data are not published, are being maintained for the assistance of water commissioners in their administrative duties.

The measurement and recording of diversions by transmountain ditches and tunnels require increasing attention each year. Such diversions must be measured not only at their source, but also at points of delivery into another drainage basin and again at points of diversion for use. There is now a total of 26 transmountain diversions in the state. The majority of these bring water from the western slope into eastern slope areas. These diversion ditches are equipped with Parshall measuring flumes and automatic recording instruments, but it is still necessary to rate and inspect the flumes and recording equipment frequently to obtain proper records of such diversions.

Due to the large diversions by the Independence Pass and Moffat tunnels, tables of corrected flow of the Roaring Fork River at Aspen and Fraser River at Winter Park are published so that a proper comparison of the records of flow at those points may be made with the long time records of stream flow before such transmountain diversions were initiated. Similar correction tables have been prepared and published for the Williams Fork River at Steelman Creek, Leal and Parshall. The Jones Pass tunnel, owned by the City of Denver, began diverting water from Williams Fork River into Clear Creek in May, 1940.

During the biennium, a total of 4,362 discharge measurements of stream flow, and 1,255 measurements of canal diversions were made. In addition, 91 measurements were made of wells which were pumped.

Approximately 1,000 Parshall type measuring flumes were installed in ditches and canals throughout the state within the last biennium, under the supervision of the department. The throat widths of these flumes vary in size from 1 to 20 feet. Irrigation Divisions Nos. 1 and 5 lead in the numbers of such installations made within the biennium. Low runoff in recent years has made it imperative that ditch diversions be measured as accurately as possible in the interest of proper administration.

All stream gaging stations are now equipped with the latest models of automatic water stage recording instruments, with ranges sufficient to record all stages of stream flow, and with good shelter houses and cables or bridges, from which high water measurements are made. Through the cooperative agreement betwen this department and the U. S. Geological Survey, in force since 1934, it has been possible to purchase many new recording instruments, as well as to carry out much reconstruction work for placing the stations in first class condition.

Data on stream flow throughout the state is published in both the water supply papers of the U. S. Geological Survey and the biennial reports of this department, which assures wide distribution of these data to the public.

Measurements of gains and losses in various streams of the state are being made by this department from year to year.

This department continued to cooperate with the Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, and other federal agencies in collecting data on snow conditions at 93 snow courses throughout the state. Observations are taken on the first of February, March, April and May, on the depth of snow and the water content thereof. These records now cover a period of six years. Comparisons of these data with records of resulting runoff, it is anticipated, will provide the basis for predetermining future runoff based upon observations of snow cover. For many snow courses, these forecasts have been reasonably reliable, and should become more valuable as the years of record are extended. The principal difficulty in making reliable predictions of runoff, based upon snow measurements, is the impossibility of anticipating temperature conditions and air currents after April 1st, which have a profound effect upon resulting runoff.

Under the cooperative agreement between this department and the U. S. Geological Survey, a total of about $111,000 was expended from state and federal appropriations exclusively on stream gaging work in the state during the last fiscal period. Of this sum, $55,510 came out of state appropriations. This amount represents 42 per cent of the total state appropriations for this department for the biennium.

CHAPTER X.

DESCRIPTIONS OF
STREAM GAGING STATIONS
AND
TABLES OF STREAM DISCHARGES
FOR
WATER YEARS 1939 AND 1940

All stream gaging stations in this state are maintained by the State Engineer of Colorado in cooperation with the United States Geological Survey.

The majority of the stream measurements in the Colorado River and North Platte River basins were made by the U. S. G. S. while all work in the Arkansas, Rio Grande and South Platte River basins was done by the State Engineer's office.

The following agencies also cooperated with the State Engineer in this work:

State of Nebraska

State of New Mexico

U. S. Army Engineers

U. S. Bureau of Reclamation

U. S. Forest Service

Municipalities of Denver, Loveland, Grand Junction

Arkansas Valley Ditch Association

Rio Grande Water Users Association

Uncompahgre Valley Water Users Association

Del Norte, Terrace and Trinchera Irrigation Districts

Public Service Company of Colorado

Western Colorado Power Company

RELATED RUNOFF IN PERCENTAGE OF THE NORMAL FOR STREAMS IN COLORADO

Stream	Years of Record	Mean Ac. Ft.	1939 %	1940 %
Animas River at Durango	42	646,180	65	56
Arkansas River at Canon City	53	522,100	80	46
Bear Creek at Morrison	21	41,620	72	33
Big Thompson River below Power House near Drake	12	111,440	76	69
Blue River at Dillon	30	87,230	87	56
Boulder Creek near Orodell	34	68,650	79	70
Cache la Poudre River at Canon	57	306,310	68	55
Clear Creek near Golden	31	177,030	77	63
Colorado River at Glenwood Springs	41	2,161,980	79	61
Conejos River near Mogote	38	271,180	63	57
Dolores River at Dolores	31	319,670	59	68
†Fraser River at West Portal	30	31,319	79	69
La Plata River at Hesperus	26	34,240	49	58
Laramie River near Jelm, Wyoming	32	123,210	60	68
Little Snake River at Lily Park	20	458,700	64	57
North Platte River near Northgate	27	355,640	56	44
Purgatoire River at Trinidad	33	65,310	59	52
Rio Grande River near Del Norte	51	690,890	80	43
†Roaring Fork River at Glenwood Springs	34	1,094,820	73	56
Saguache Creek near Saguache	31	55,370	85	35
South Boulder Creek at Eldorado Springs	48	55,250	70	58
*South Platte River at South Platte	49	266,480	85	41
St. Vrain Creek at Lyons	51	97,980	65	55
White River near Meeker	37	462,520	80	78
White River near Watson, Utah	19	550,740	80	70
Yampa River at Steamboat Springs	35	352,740	84	74
Yampa River near Maybell	30	1,198,540	77	71
State Average			72	58

NOTE: The mean in acre feet is based on all available years of record as shown in first column, including the year 1940.

*Corrected for storage.

†Corrected for transmountain diversion.

PLATTE RIVER BASIN

SOUTH PLATTE RIVER ABOVE ELEVEN MILE CANON RESERVOIR NEAR HARTSEL, COLORADO

Location—Water stage recorder in Sec. 32, T. 12 N., R. 73 W., 250 feet below highway from Hartsel to Guffey, one mile above high water line of Eleven Mile Canon Reservoir and 13 miles southeast of Hartsel. 20-foot Parshall flume installed at this station in October, 1940.

Records Available—May 27, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40, 608 second feet, September 9, 1940. Gage height 3.25 feet.

Maximum Discharge—Year 1939; 350 second feet, June 1, 1939. Gage height 2.30 feet.

Maximum Discharge—Year 1940; 608 second feet, September 9, 1940. Gage height 3.25 feet.

Accuracy—Records considered good. No record during winter.

Diversions for storage and irrigation above station. Flow regulated by Antero Reservoir; capacity 33,000 acre-feet.

SOUTH PLATTE RIVER NEAR LAKE GEORGE, COLORADO

Location—Water stage recorder in NW¼ Sec. 21, T. 13 S., R. 72 W., 1½ miles downstream from Eleven Mile Canon Reservoir and 8 miles upstream from Lake George. Concrete 15-foot Parshall flume installed in river 800 feet below reservoir outlet and below spillway, October, 1940.

Drainage Area—929 square miles. Zero of gage is 8,423.95 feet above mean sea level.

Records Available—October 1, 1929, to September 30, 1940. Station located at Lake George, 8 miles downstream, from October, 1910, to September, 1929.

Maximum discharge observed during period 1930-40; 990 second feet, August 15, 1930. Gage height 4.80 feet.

Maximum Discharge—Year 1939; 384 second feet, June 1, 1939. Gage height 2.83 feet.

Maximum Discharge—Year 1940; 169 second feet, May 18, 1940. Gage height 2.01 feet.

Accuracy—Records considered good.

Diversions for storage and irrigation above station. Flow regulated by Antero and Eleven Mile Canon Reservoirs; capacity 33,000 and 80,000 acre-feet, respectively.

SOUTH PLATTE RIVER ABOVE LAKE CHEESMAN, COLORADO

Location—Water stage recorder in Sec. 22, T. 10 S., R. 71 W., at weir ½ mile above highwater line of Lake Cheesman.

Drainage Area—1,680 square miles. Zero of gage is 6,845.86 feet above mean sea level.

Records Available—October 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1924-40; 3030 second feet, August 6, 1936. Gage height 5.30 feet.

Maximum Discharge—Year 1939; 768 second feet, June 2, 1939. Gage height 2.54 feet.

Maximum Discharge—Year 1940; 329 second feet, May 19, 1940. Gage height 1.82 feet.

Accuracy—Records considered excellent except those for June 15 and 16, 1939, and during winter period; and November 8-31; March 21-April 2, 1940, and June 25-29, which were estimated and are fair.

Diversions for storage and irrigation above station. Flow regulated by two reservoirs above station; total capacity of 115,000 acre-feet.

SOUTH PLATTE RIVER BELOW LAKE CHEESMAN, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 70 W., ¼ mile downstream from Lake Cheesman.

Drainage Area—1,766 square miles. Zero of gage is 6,610.38 feet above mean sea level.

Records Available—October 1, 1924, to September 30, 1940. Acre-foot estimates 1909 to date.

Maximum discharge observed during period 1924-40; 1630 second feet, June 25, 1936. Gage height 6.40 feet.

Maximum Discharge—Year 1939; 728 second feet, June 2, 1939. Gage height 4.58 feet.

Maximum Discharge—Year 1940; 556 second feet, June 24, 1940. Gage height 4.08 feet.

Accuracy—Records considered good except those for November 7, 1938, to March 30, 1939, which were computed on basis of 4 discharge measurements and discharge records at reservoir, and are fair.

Diversions for storage and irrigation above station. Flow regulated by three reservoirs, total capacity 194,000 acre-feet.

NORTH FORK OF SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location—Water stage recorder in Sec. 25, T. 7 S., R. 70 W., one-third of a mile west of South Platte.

Drainage Area—484 square miles. Zero of gage is 6,090.55 feet above mean sea level.

Records Available—January 4, 1909, to September 30, 1910; April 1, 1913, to September 30, 1940.

Maximum discharge observed during period 1909-40; 1910 second feet, June 8, 1921. Gage height 5.90 feet.

Maximum Discharge—Year 1939; 543 second feet, June 1, 1939. Gage height 3.57 feet.

Maximum Discharge—Year 1940; 232 second feet, June 1, 1940. Gage height 2.85 feet.

Accuracy—Records considered good. Records for period of ice effect November 7-9, 20, 1938, December 23, 1938, to March 22, 1939, were computed on basis of 3 discharge measurements and temperature records, and those for period of ice effect October 13, 1939, to March 21, 1940, were computed on basis of 5 discharge measurements, weather records and comparison with South Platte River at South Platte.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location—Water stage recorder in Sec. 25, T. 7 S., R. 70 W., at South Platte, 375 feet downstream from mouth of North Fork of South Platte River.

Drainage Area—2,550 square miles. Zero of gage is 6,078.46 feet above mean sea level.

Records Available—March 28, 1902, to September 30, 1940.

Maximum discharge observed during period 1902-40; 6320 second feet, June 7, 1921. Gage height 9.95 feet.

Maximum Discharge—Year 1939; 1100 second feet, May 28, 1937. Gage height 3.85 feet.

Maximum Discharge—Year 1940; 1150 second feet, September 3, 1940. Gage height 3.91 feet.

Accuracy—Records considered good. Discharge for period of ice effect from December 23, 1938, to March 20, 1939, and those for period from November 13, 1939, to March 21, 1940, computed on basis of 4 discharge measurements and comparison with North Fork and Waterton stations, measurements and records for station below Cheesman Reservoir, plus estimated inflow.

Diversions for irrigation above station. Flow regulated by three reservoirs; capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT WATERTON, COLORADO

Location—Water stage recorder in Sec. 34, T. 6 S., R. 69 W., 200 feet east of highway bridge at pipe line crossing from Platte Canon Reservoir to filter beds and one-half mile south of Waterton. Waste from Platte Canon Reservoir enters immediately above station.

Drainage Area—2,621 square miles. Zero of gage is 5,484.44 feet above mean sea level.

Records Available—May 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 2670 second feet, August 12, 1936. Gage height 3.10 feet.

Maximum Discharge—Year 1939; 876 second feet, May 26, 1939. Gage height 2.37 feet.

Maximum Discharge—Year 1940; 576 second feet, August 23, 1940. Gage height 1.86 feet.

Accuracy—Records good except those for period of ice effect January 3, 1939, to March 8, and January 12, 1940, to February 14, 1940, which were computed on basis of 2 discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by three storage reservoirs above station; capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT DENVER, COLORADO

Location—Water stage recorder at 19th Street Bridge in Denver, 1/4 mile downstream from mouth of Cherry Creek. Waste water from Farmers and Gardeners Ditch enters river above station.

Drainage Area—3,840 square miles. Zero of gage is 5,162.16 feet above mean sea level.

Records Available—May 7, 1895, to September 30, 1940. Station maintained between 15th and 16th Street bridges prior to August 29, 1931. Records comparable.

Maximum discharge observed during period 1902-40; 22,000 second feet, September 10, 1933. Gage height 10.98 feet.

Maximum Discharge—Year 1939; 4790 second feet, March 10, 1939. Gage height 5.10 feet.

Maximum Discharge—Year 1940; 2480 second feet, September 10, 1940. Gage height 4.14 feet.

Accuracy—Records considered good except those for periods of ice effect January 2-15, 1939, and November 30 to December 21, 1939; January 18-21, 25-27, 1940, which were computed on weather records, and comparison of records for South Platte at Henderson, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT HENDERSON, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 S., R. 67 W., 1/4 mile west of Henderson and just below highway bridge.

Drainage Area—4,740 square miles. Altitude, 5,000 feet above mean sea level.

Records Available—May 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 5,730 second feet, March 11, 1939. Gage height 7.20 feet.

Maximum Discharge—Year 1939; 5730 second feet, March 11, 1939. Gage height 7.20 feet.

Maximum Discharge—Year 1940; 2,410 second feet, July 3, 1940. Gage height 4.83 feet.

Accuracy—Records considered fair. Those for ice effect period January 21, 1939, to February 29, March 9-13, which were computed on basis of 2 discharge measurements and weather records, and during period of missing gage heights April 16-24, which were estimated, and those for January 6-10, 1940, January 13 and January 16 to February 3, computed on basis of discharge measurements, weather records, and comparison South Platte at Denver and Ft. Lupton.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT FORT LUPTON, COLORADO

Location— Water stage recorder in Sec. 6, T. 1 N., R. 66 W., at west edge of Fort Lupton and 600 feet upstream from highway bridge. Prior to June 20, 1935, water stage recorder at site ¼ mile downstream and at different datum.

Drainage Area—5,070 square miles. Altitude 4,900 feet above mean sea level.

Records Available—May 10 to September 15, 1906, April 29, 1929, to September 30, 1940.

Maximum discharge observed during period 1906; 1929-40; 5,030 second feet, March 11, 1939. Gage height 5.59 feet.

Maximum Discharge—Year 1939; 5,030 second feet, March 11, 1939. Gage height 5.59 feet.

Maximum Discharge—Year 1940; 1,880 second feet, July 3, 1940. Gage height 3.99 feet.

Accuracy—Records considered good except those for period of ice effect, January 6-12 and January 15-31, 1940, which were computed on basis of one discharge measurement and weather records, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER NEAR KERSEY, COLORADO

Location—Water stage recorder in Sec. 9, T. 5 N., R. 64 W., at highway bridge 1¾ miles north of Kersey. Cache la Poudre River enters 2.5 miles above station.

Drainage Area—9,500 square miles. Altitude, 4,600 feet above mean sea level.

Records Available—April 27, 1901, to October 31, 1903;

March 1, 1905, to November 20, 1912; January 1, 1914, to September 30, 1940.

Maximum discharge observed during period 1901-3; 1905-40, 31,000 second feet, June 7, 1921.

Maximum Discharge—Year 1939; 4,160 second feet, March 12, 1939. Gage height 6.59 feet.

Maximum Discharge—Year 1940; 1,670 second feet, July 4, 1940. Gage height 4.73 feet.

Accuracy—Records considered fair except those for period of ice effect from February 9 to February 14, 1939, which were computed on basis of weather records.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT SUBLETTE, COLORADO

Location—Water stage recorder in Sec. 14, T. 4 N., R. 61 W., just downstream from highway bridge and 1,000 feet south of Sublette.

Drainage Area—12,900 square miles.

Records Available—April 19, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 8,090 second feet, April 23, 1926. Gage height 5.80 feet. Highest discharge known about 30,000 second feet, June 7, 1921.

Maximum Discharge—Year 1939; 4,740 second feet, March 13, 1939. Gage height 6.30 feet.

Maximum Discharge—Year 1940; 782 second feet, July 5, 1940. Gage height 2.57 feet.

Accuracy—Records considered good except those for period of ice effect, December 12-30, 1938; March 11-13, 22-25, 1939, which were estimated and are fair. Discharge for May 18 and 19; September 19-22, 1939; computed on basis of range in stage on recorder chart and by comparison with South Platte at Kersey and diversions and weather records, and are fair.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT BALZAC, COLORADO

Location—Water stage recorder in Sec. 13, T. 5 N., R. 55 W., at Balzac siding 1¼ miles northeast of Union. Two recording gages on two channels.

Drainage Area—17,700 square miles. Zero of gage is 4,090.99 feet above mean sea level.

Records Available—January, 1917, to September 30, 1940.

Maximum discharge observed during period 1917-40; May 31, 1935. Gage height 11.43 feet; discharge not determined.

Maximum Discharge—Year 1939; 11,300 second feet, March 12, 1939. Gage height 7.80 feet.

Maximum Discharge—Year 1940; 1,100 second feet, September 11, 1940.

Accuracy—Records considered good. During period July 30, 1940, to September 30, 1940, when beaver constructed dam in small channel No. 2, discharge computed by gage heights and measurements and comparison with record on other channel.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT JULESBURG, COLORADO

Location—Water stage recorder in Sec. 33, T. 12 N., R. 44 W., at highway bridge one-half mile east of Julesburg, Colorado, and four miles above the Colorado-Nebraska state line. (Three water stage recorders) Datum lowered 1.00 foot June 30, 1940. (On Channel No. 2.)

Drainage Area—20,600 square miles. Zero of gage 3,446.76 feet above mean sea level.

Records Available—April 2, 1902, to November 16, 1906; May 12, 1908, to November 30, 1912; April 8, 1914, to September 30, 1940.

Maximum discharge observed during period 1902-06; 1908-12; 1914-40; 31,300 second feet, June 2, 1935. Gage heights 8.56 feet.

Maximun Discharge—Year 1939; 9,330 second feet, March 14, 1939.

Maximum Discharge—Year 1940; 349 second feet, March 16, 1940.

Accuracy—Records considered good. They represent flow passing Colorado-Nebraska state line.

Diversions for irrigation above station.

TARRYALL CREEK NEAR LAKE GEORGE, COLORADO

Location—Water stage recorder in Sec. 22, T. 11 S., R. 72 W., at McLaughlin's ranch eight miles northwest of Lake George, and approximately five miles above the mouth. Cowhead Creek enters from south approximately one mile above.

Drainage Area—460 square miles.

Records Available—October, 1910, to June, 1912; June 19 to October 26, 1916; April 1, 1925, to September 30, 1940.

Maximum discharge observed during period 1910-12, 1916, 1925-1940; 643 second feet, July 31, 1935. Gage height 5.20 feet.

Maximum Discharge—Year 1939; 330 second feet, June 1, 1939. Gage height 3.22 feet.

Maximum Discharge—Year 1940; 346 second feet, September 4, 1940. Gage height 3.24 feet.

Accuracy—-Records considered good except those for period of missing gage heights, April 5-6, 8-14, 16-20, 23-27, 30 to May

4, 8, 10, 11, 24, 25, 31 to June 1, 19-22, 1939, and April 17, 1940, which were estimated, and are fair.

Diversions for irrigation above station.

GOOSE CREEK ABOVE LAKE CHEESMAN, COLORADO

Location—Water stage recorder in Sec. 3, T. 10 S., R. 71 W., one mile upstream from high-water line of Lake Cheesman. Sharp crested weir.

Drainage Area—86 square miles. Altitude, 6,835 feet above mean sea level.

Records Available—October, 1924, to September 30, 1940. Acre-foot estimates 1909 to date.

Maximum discharge observed during period 1924-40; 360 second feet (daily mean), May 27, 1926.

Maximum Discharge—Year 1939; 150 second feet, April 29, 1939. Gage height 2.48 feet.

Maximum Discharge—Year 1940; 111 second feet, May 21, 1940. Gage height 2.12 feet.

Accuracy—Records considered good in 1939 except those for April 1-3, 15-16, 1939, June 8, 9, July 1, 21, 25-29, August 1-5, 14-18, 29, 30, September 3-4, 29-30, 1939, which were estimated, and are fair. Records excellent for 1940, except during ice period November 11-30, 1939, which are fair.

BEAR CREEK AT MORRISON, COLORADO

Location—Water stage recorder in SE¼ Sec. 35, T. 4 S., R. 70 W., just upstream from main Turkey Creek Canon highway bridge, at Morrison. Mount Vernon Creek enters ¼ mile downstream. From October, 1919, to September, 1934, water stage recorder at Idledale, three miles above; records comparable.

Drainage Area—165 square miles. Zero of gage is 5780.56 feet above mean sea level.

Records Available—April, 1888, to September, 1891; May, 1895, to March, 1902; October, 1919, to September 30, 1940.

Maximum discharge observed during period 1888-91, 1895-1902, 1919-40; 8,600 second feet (slope area) July 24, 1896. Gage height 10.90 feet.

Maximum Discharge—Year 1939; 295 second feet, October 1, 1937. Gage height 3.49 feet.

Maximum Discharge—Year 1940, 615 second feet, August 25, 1940. Gage height 3.65 feet.

Accuracy—Records considered fair except for period of ice effect November 12, 1938, to January 26, 1939, January 31, February 1, 6-19, 23, 1939, which were computed on basis of discharge measurements and weather records. Discharge estimated June 26, to July 1, 1940, on basis daily observations.

Small diversions for irrigation above station.

BEAR CREEK AT MOUTH AT SHERIDAN JUNCTION, COLORADO

Location—Water stage recorder in Sec. 5, T. 5 S., R. 68 W., one-half mile southwest of Sheridan Junction and three-fourths mile above mouth.

Drainage Area—265 square miles.

Records Available—April 1 to November 30, 1914; February 23, 1927, to September 30, 1940.

Maximum discharge observed during period 1914, 1927-40; 3000 second feet (slope measurement), July 7, 1933. Gage height 6.95 feet.

Maximum Discharge—Year 1939; 141 second feet, April 16, 1939. Gage height 3.17 feet.

Maximum Discharge—Year 1940; 690 second feet, August 25, 1940. Gage height 5.46 feet.

Accuracy—Records considered fair except for periods of ice effect February 12, 1939, and December 24-26, 1939, to February 8, 1940, which were computed on basis of discharge measurements and weather records.

Diversions for storage and irrigation above station.

CHERRY CREEK NEAR FRANKTOWN, COLORADO

Location—Water stage recorder in Sec. 15, T. 8 S., R. 66 W., at mouth of Wildcat Canon 1.9 miles above Franktown. Russellville Gulch enters from right one mile below. Ruins of Castlewood dam 1.5 miles upstream.

Drainage Area—172 square miles.

Records Available—November 21, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 2300 second feet, June 6, 1940. Gage height 2.60 feet.

Maximum Discharge—Year 1940; 2300 second feet, June 6, 1940. Gage height, 2.60 feet.

Accuracy—Records considered fair. Records for period of ice effect December 18-21, 27-29, 1939; January 11 to February 23, 1940, were computed on basis of 3 discharge measurements and weather records.

Small diversions for irrigation above station.

CHERRY CREEK NEAR MELVIN, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 66 W., ¼ mile below South Cherry Creek and 1½ miles northeast of Melvin. Kenwood flood control dam located 4 miles downstream. To reach station, turn into ranch ½ mile north of South Cherry Creek bridge on Parker road.

Drainage Area—369 square miles. Zero of gage is 5,608.96 feet above mean sea level.

Records Available—November 23, 1939, to September 30, 1940.

Maximum Discharge—Year 1940; 4500 second feet, September 6, 1940. Gage height 4.38 feet.

Accuracy—Records considered fair. Discharge for period of ice effect January 6, 8-26, computed on basis of one discharge measurement and weather records.

Diversions for irrigation above station.

CLEAR CREEK NEAR GOLDEN, COLORADO

Location—Water stage recorder in Sec. 32, T. 3 S., R. 70 W., 1½ miles above Golden. Welch Ditch diverts water above station. Beaver Creek enters from south, approximately three miles upstream.

Drainage Area—392 square miles. Altitude, 5,620 feet above mean sea level.

Records Available—December 4, 1908, to December 31, 1909; June to September, 1911; January 26, 1912, to September 30, 1940.

Maximum discharge observed during period 1908-09, 1911-40; 5,890 second feet, September 9, 1933, by slope area method. Gage height 7.97 feet. Maximum discharge known, 8,700 second feet, August 1, 1888.

Maximum Discharge—Year 1939; 916 second feet, May 23, 1939. Gage height 2.16 feet.

Maximum Discharge—Year 1940; 1110 second feet, July 28, 1940. Gage height 2.34 feet.

Accuracy—Records considered fair. Those for periods of ice effect November 14, 1938, to March 14, 1939; November 21, 1939, to March 19, 1940, were computed on basis of 4 discharge measurements and weather records.

Diversions for irrigation above station.

CLEAR CREEK AT MOUTH NEAR DERBY, COLORADO

Location—Water stage recorder in Sec. 35, T. 2 S., R. 68 W., ¾ mile above mouth and 2¼ miles west of Derby.

Drainage Area—600 square miles.

Records Available—April 1, 1914, to November 30, 1914; February 25, 1927, to September 30, 1940.

Maximum discharge observed during period 1914, 1927-40; 3,650 second feet, ~~May 30~~ Sep 3, 1938. Gage height 4.04 feet.

Maximum Discharge—Year 1939; 588 second feet, June 6, 1939. Gage height 3.77 feet.

Maximum Discharge—Year 1940; 918 second feet, September 21, 1940. Gage height 4.29 feet.

Accuracy—Records considered fair. Discharge for ice effect period December 16-23, 1938; January 10, 12, 15, 17 to February 15, 1939, computed on basis two discharge measurements. Period from April 30 to May 14, 1939, estimated on basis one discharge measurement, and from August 14-17 estimated. From January 6 to February 22, 1940, records computed on basis of two discharge measurements and weather records. Those for March 12-15, May 22-25, 1940, were estimated.

Diversions for irrigation above station.

SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, COLORADO

Location—Water stage recorder in Sec. 26, T. 1 S., R. 71 W., 1¼ miles west of Eldorado Springs and 1 mile above Community Dam.

Drainage Area—114 square miles.

Records Available—May 15, 1895, to September 30, 1901; July 1, 1904, to September 30, 1940. Station maintained at Marshall 4 miles below, from 1895-1901, and at Eldorado Springs 1904-29. All records were corrected for diversions before publishing, making them comparable.

Maximum discharge observed during period 1888-92, 1895-1901, 1904-1940; 7,390 second feet, September 2, 1938. Gage height 9.24 feet.

Maximum Discharge—Year 1939; 540 second feet, June 1, 1939. Gage height 3.22 feet.

Maximum Discharge—Year 1940; 688 second feet, July 28, 1940. Gage height 4.43 feet.

Accuracy—Records considered good except those for periods of ice effect, November 29, 1938, to April 4, 1939, and November 27, 1939, to March 21, 1940, which were computed on basis of 4 discharge measurements and weather records, and are fair.

Diversions for irrigation above station. Water from Moffat Tunnel trans-mountain diversion diverted approximately 1½ miles above station. Some of this water passes station. See Fraser River station at Granby for amounts diverted from Colorado River basin into this drainage basin.

MIDDLE BOULDER CREEK, AT NEDERLAND, COLORADO

Location—Water stage recorder in Sec. 13, T. 1 S., R. 73 W., at inlet to Barker Meadow Reservoir below mouth of North Beaver Creek and just east of Nederland. (Sharp crested weir.)

Drainage Area—38 square miles. Altitude, 8,180 feet above mean sea level.

Records Available—January, 1908, to September 30, 1940.

Complete records furnished by Public Service Company of Colorado.

BOULDER CREEK NEAR ORODELL, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 N., R. 71 W., ¼ mile below Public Service Power House, and 1 mile above old Orodell station. Four Mile Creek enters from north, 1 mile below station.

Drainage Area—105 square miles. Altitude, 5,800 feet above mean sea level.

Records Available—August, 1887, to October, 1888; March, 1907, to December, 1914; February, 1916, to September 30, 1940. Prior to 1917, station maintained just above mouth of Four Mile Creek, 1 mile downstream.

Maximum discharge observed during period 1887-88, 1907-14, 1916-1940; 2,500 second feet, June 6, 1921. Gage height 4.31 feet.

Maximum Discharge—Year 1939; 425 second feet, May 31, 1939. Gage height 3.01 feet.

Maximum Discharge—Year 1940; 490 second feet, September 21, 1940. Gage height 3.15 feet.

Accuracy—Records considered good.

Diversions for storage above station. Flow regulated by Barker Meadow Reservoir; capacity 11,500 acre-feet. Low water flow regulated by operation of power plant ¼ mile above station.

BOULDER CREEK AT MOUTH NEAR LONGMONT, COLORADO

Location—Water stage recorder in NE¼, Sec. 17, T. 2 N., R. 68 W., 1½ miles upstream from mouth and 5 miles southeast of Longmont.

Drainage Area—512 square miles.

Records Available—March 16, 1927, to September 30, 1940.

Maximum discharge observed during period 1927-40; 4,410 second feet, September 3, 1938. Gage height 6.94 feet.

Maximum Discharge—Year 1939; 390 second feet, April 24, 1939. Gage height 3.23 feet.

Maximum Discharge—Year 1940; 111 second feet, July 3, 1940. Gage height 2.34 feet.

Accuracy—Records considered fair except those for periods of ice effect December 11, 1938, to April 5, 1939, and December 23, 1939, to March 7, 1940, each computed on basis of 4 and 3 discharge measurements and weather records, and are fair.

Diversions for storage and irrigation above station.

NORTH ST. VRAIN CREEK AT LONGMONT DAM, NEAR LYONS, COLORADO

Location—Water stage recorder in Sec. 16, T. 3 N., R. 71 W., ¾ of a mile upstream from Longmont Dam, and 4 miles west of Lyons. City of Longmont pipe line diverts water below station.

Drainage Area—109 square miles. Altitude, 6,080 feet above mean sea level.

Records Available—1913 to 1917 (partial records); June 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 972 second feet, September 2, 1938. Gage height 4.34 feet.

Maximum Discharge—Year 1939; 356 second feet, June 6, 1939. Gage height 3.10 feet.

Maximum Discharge—Year 1940; 319 second feet, June 21, 1940. Gage height 3.04 feet.

Accuracy—Records considered good.

Diversions for storage above station.

ST. VRAIN CREEK AT LYONS, COLORADO

Location—Water stage recorder in Sec. 17, T. 3 N., R. 70 W., 300 feet downstream from junction of North and South St. Vrain Creeks, and 3/4 mile east of Lyons.

Drainage Area—226 square miles. Altitude, 5,349 feet above mean sea level.

Records Available—August 1, 1887, to October 31, 1890; June 13, 1895, to October 31, 1903; July 1, 1904, to September 30, 1940.

Maximum discharge observed during period 1887-90, 1895-1903, 1904-40; 9,400 second feet, July 30, 1919. Gage height 7.90 feet (from flood marks) slope-area meas.

Maximum Discharge—Year 1939; 978 second feet, August 30, 1939. Gage height 3.82 feet.

Maximum Discharge—Year 1940; 675 second feet, May 27, 1940. Gage height 3.57 feet.

Accuracy—Records considered good.

Diversions for storage and irrigation above station. Several reservoirs partly regulate flow.

ST. VRAIN CREEK AT MOUTH NEAR PLATTEVILLE, COLORADO

Location—Water stage recorder in Sec. 3, T. 3 N., R. 67 W., at highway bridge 1 mile upstream from mouth and 4 miles northwest of Platteville.

Drainage Area—1,000 square miles.

Records Available—April to December 31, 1915; February 24, 1927, to September 30, 1940.

Maximum discharge observed during period 1915, 1927-40; 8,360 second feet September 3, 1938. Gage height 8.93 feet.

Maximum Discharge—Year 1939; 595 second feet, May 2, 1939. Gage height 3.12 feet.

Maximum Discharge—Year 1940; 1,420 second feet, July 3, 1940. Gage height 4.33 feet.

Accuracy—Records considered good except those for period of missing gage heights, November 11, 1938, and those for periods of ice effect, November 23-27, 1938; December 11, 1938, to January 4, 1939; January 15-18; February 2 to March 8, 1939; and December 27, 1939, to February 12, 1940, which were computed on basis of discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

LEFTHAND CREEK AT MOUTH AT LONGMONT, COLORADO

Location—Water stage recorder in Sec. 10, T. 2 N., R. 69 W., ¾ mile above mouth and 1 mile south of Longmont. Datum lowered 2.33 feet April 19, 1938.

Drainage Area—74 square miles. Altitude, 4,990 feet above mean sea level.

Records Available—March 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1927-40; 812 second feet, September 2, 1938. Gage height 6:10 feet.

Maximum Discharge—Year 1939; 66 second feet, May 1, 1939. Gage height 1.93 feet.

Maximum Discharge—Year 1940; 36 second feet, September 28, 1940. Gage height 1.55 feet.

Accuracy—Records considered fair. Discharge for periods of ice effect December 10, 1938, to April 7, 1939, and December 24 to March 7, 1940, were computed on basis of 4 discharge measurements, and weather records; those for November 24-29, 1938, May 12-16, June 1-2, 12-16, 1938, were estimated.

Diversions for irrigation above station.

BIG THOMPSON RIVER NEAR ESTES PARK, COLORADO

Location—Water stage recorder in Sec. 29, T. 5 N., R. 72 W., 1½ miles east of Estes Park.

Drainage Area—158 square miles. Altitude, 7,424 feet above mean sea level.

Records Available—June, 1930, to September 30, 1940 (Prior to February, 1934, station was maintained 1½ miles downstream. Records comparable.)

Maximum discharge observed during period 1930-40; 1,590 second feet, June 16, 1935. Gage height 5.54 feet.

Maximum Discharge—Year 1939; 665 second feet, June 1, 1939. Gage height 3.70 feet.

Maximum Discharge—Year 1940; 612 second feet, June 3, 1940. Gage height 3.62 feet.

Accuracy—Records considered excellent except for periods of ice effect November 7, 1938, to April 5, 1939; and November 13 to April 11, 1940, computed on basis of 5 discharge measurements each period and weather records, and those for August 14, 22, 29; September 11-12, 1940 (estimated), which are good.

Diversions for irrigation above station.

BIG THOMPSON RIVER BELOW POWER HOUSE NEAR DRAKE, COLORADO

Location—Water stage recorder in NW¼ Sec. 7, T. 5 N., R. 70 W., ¼ mile below City of Loveland Hydro-electric plant, and 4½ miles east of Drake. Cedar Creek enters ⅛ mile downstream.

Drainage Area—277 square miles.

Records Available—October 1, 1928, to September 30, 1940. Records comparable at site 3 miles upstream, from September, 1917, to December, 1926.

Maximum discharge observed during period 1929-40; 1,950 second feet, June 14, 1935. Gage height 5.00 feet. Maximum known discharge, estimated, 8,000 second feet July 31, 1919.

Maximum Discharge—Year 1939; 818 second feet, June 1, 1939. Gage height 3.38 feet.

Maximum Dicharge—Year 1940; 755 second feet, June 3, 1940. Gage height 3.28 feet.

Accuracy—Records considered good except those for period of missing gage heights October 20-27, 1938, and period of ice effect February 4-5, 9-10, 1939; March 22, 27; June 23-25; July 21-23, 1939, and March 1-5, 1940, which were computed on basis discharge measurements and weather records, and are fair.

Diversions for irrigation above station. City of Loveland furnishes gage height record. Small storage reservoir above power plant; capacity about 30 acre-feet.

BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, COLORADO

Location—Water stage recorder in NW¼ Sec. 10, T. 5 N., R. 70 W., just upstream from mouth of canyon, 450 feet upstream from Handy Dam, 6½ miles east of Drake. From 1917-1933 station was maintained ½ mile upstream; records are equivalent.

Drainage Area—302 square miles.

Records Available—1917-1933; April 19, 1938, to September 30, 1940.

Maximum discharge observed during period 1917-33; 1938-40; 5,600 second feet, September 1, 1938. Gage height 6.60 feet.

Maximum Discharge—Year 1939; 923 second feet, June 1, 1939. Gage height 3.14 feet.

Maximum Discharge—Year 1940; 839 second feet, June 3, 1940. Gage height 2.90 feet.

Accuracy—Records considered good, except those during ice period from November 7, 1938, to March 22, 1939, and from November 18 to March 4, 1940, computed on basis of 4 discharge measurements, weather records and comparison with records for Big Thompson River below power house, and are fair.

Diversions for irrigation above station.

BIG THOMPSON RIVER AT MOUTH NEAR LA SALLE, COLORADO

Location—Water stage recorder in SW¼ Sec. 34, T. 5 N., R. 66 W., at first bridge across Big Thompson River, 1 mile above mouth and 4 miles west of La Salle.

Drainage Area—818 square miles.

Records Available—April 1 to November 30, 1914; March 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1914, 1927-40; 3,000 second feet, September 3, 1938. Gage height 7.31 feet.

Maximum Discharge—Year 1939; 118 second feet, June 29, 1939. Gage height 2.40 feet.

Maximum Discharge—Year 1940; 124 second feet, July 4, 1940. Gage height 2.4 feet.

Accuracy—Records considered fair. Those for period of ice effect December 2, 1936, to January 25, 1939, and those for January 28 to March 18, 1940, computed on basis of discharge measurements and weather records and comparison with record of St. Vrain Creek near Platteville.

Diversions for irrigation above station.

CACHE LA POUDRE RIVER AT MOUTH OF CANYON NEAR FT. COLLINS, COLORADO

Location—Water stage recorder in Sec. 15, T. 8 N., R. 70 W., at mouth of canyon, 3 miles downstream from intake of Ft. Collins water works, and 11 miles west of Ft. Collins.

Drainage Area—1,048 square miles. Altitude, 5,070 feet above mean sea level.

Records Available—May 15, 1884, to September 30, 1940.

Maximum discharge observed during period 1884-40; 10,200 second feet, May 31, 1930. Gage height 7.90 feet.

Greatest maximum discharge known occurred May 20, 1904; discharge not determined.

Maximum Discharge—Year 1939; 2,580 second feet, June 6, 1939. Gage height 4.35 feet.

Maximum Discharge—Year 1940; 3,510 second feet, August 17, 1940. Gage height 5.00 feet.

Accuracy—Records considered good, except those for period ice effect December 4, 1938, to March 20, 1939 (computed on basis of 3 discharge measurements and weather records), and those for ice effect period December 19, 1939, to March 5, 1940, and for missing gage heights September 21-24, which were computed on above basis, and are fair.

Diversions for storage and irrigation above station; transmountain inflow from the Colorado, Michigan and Laramie Rivers above station.

CACHE LA POUDRE RIVER NEAR MOUTH NEAR GREELEY, COLORADO

Location—Water stage recorder in Sec. 2, T. 5 N., R. 65 W., 2½ miles upstream from mouth at highway bridge and 2 miles east of Greeley.

Drainage Area—1,840 square miles.

Records Available—March 24, 1903, to November 30, 1904; February 1, 1914, to December 17, 1919; and May 27, 1924, to September 30, 1940.

Maximum discharge observed during period 1903-04, 1914-19, 1924-40; 4,240 second feet, June 24, 26, 1917. Gage height 7.30 feet (former site and datum).

Maximum Discharge—Year 1939; 165 second feet, March 11, 1939. Gage height 3.33 feet.

Maximum Discharge—Year 1940; 162 second feet, July 4, 1940. Gage height 3.83 feet.

Accuracy—Records considered good except those for ice effect February 12, March 5, 1939 (computed on basis of 1 discharge measurement and weather records), and those for November 24-25, 1939; and January 20-22, 1940, which were estimated and are fair.

Diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER NEAR WRAY, COLORADO

Location—Water stage recorder in SE¼ NW¼ Sec. 9, T. 1 N., R. 44 W., 2 miles upstream from Chief Creek and 3.3 miles west of Wray.

Records Available—March 23, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-1940; 270 second feet, July 13, 1938. Gage height 9.82 feet.

Maximum Discharge—Year 1939; 84 second feet, July 31, 1939. Gage height 6.66 feet.

Maximum Discharge—Year 1940; 149 second feet, May 17, 1940. Gage height 7.90 feet.

Accuracy—Records considered good except for estimated period from December 25, 1938, to January 4, 1939; January 10, February 9-10, August 7, September 2, 3, 1939; October 31 to November 6, December 24-25; January 18-25, 1940; March 9-10, July 28, September 2, which are fair.

Small diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

Location—Water stage recorder in Sec. 10, T. 1 N., R. 42 W., 100 feet east of Colorado-Nebraska state line.

Zero of gage in 3,336.09 feet above mean sea level.

Records Available—March, 1931, to September 30, 1940.

Maximum discharge observed during period 1931-40; 1,220 second feet, September 3, 1940. Gage height 5.72 feet.

Maximum Discharge—Year 1939; 127 second feet, August 1, 1939. Gage height 2.83 feet.

Maximum Discharge—Year 1940; 1,220 second feet, September 3, 1940. Gage height 5.72 feet.

Accuracy—Records considered fair for those periods of ice effect, December 27-30, 1938; February 9-14, 1939 (computed on basis of weather records), and those for periods of missing gage height, October 8, 9, 18, 1938, which were estimated and are fair. Discharge for ice effect period December 23, 1939, to January 1, 1939; January 5-31, 1940, computed on basis of 2 discharge measurements and weather records.

Diversions for irrigation above station.

GRIZZLY CREEK NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 29, T. 8 N., R. 80 W., 10 miles south of Walden and ½ mile upstream from junction with Little Grizzly Creek.

Drainage Area—229 square miles.

Records Available—May, 1904, to October, 1905; May to September, 1923; October, 1926, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923, 1926-40; 1,340 second feet, June 10, 1923. Gage height 4.8 feet.

Maximum Discharge—Year 1939; 486 second feet, May 4, 1939. Gage height 3.70 feet.

Maximum Discharge—Year 1940; 237 second feet, May 5, 1940. Gage height 2.54 feet.

Accuracy—Records considered good except for period of ice effect November 4-7, 1938; and April 16-17, 1939, which were computed on basis of gage heights and weather records and are fair. Discharge for period of ice effect and no gage heights, October 31, 1939, and April 1-13, 1940, computed on basis of 1 discharge measurement and records for North Platte River near Walden. No record during winter.

Diversions for irrigation above station.

LITTLE GRIZZLY CREEK AT MOUTH NEAR HEBRON, COLORADO

Location—Water stage recorder in Sec. 32, T. 8 N., R. 80 W., 1 mile upstream from Junction with Grizzly Creek and 3 miles north of Hebron.

Drainage Area—96 square miles.

Records Available—June, 1940, to October, 1905; June, 1931, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1931-40; 592 second feet, June 11, 1905.

Maximum Discharge—Year 1939; 332 second feet, June 1, 1939. Gage height 3.92 feet.

Maximum Discharge—Year 1940; 403 second feet, June 6, 1940. Gage height 4.24 feet.

Accuracy—Records considered good except those for periods of ice effect April 16-17, 1939, and October 31, 1939; April 1-11, 1940; April 14, 15, 20, 23, 25; and May 3-4, 1940, computed on basis of records for North Platte near Walden and Roaring Fork and Grizzly Creek near Walden, and are fair.

Diversions for irrigation above station.

ROARING FORK NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 11, T. 8 N., R. 81 W., at highway bridge 10 miles southwest of Walden.

Drainage Area—84 square miles. Zero of gage is 8,037.44 feet above mean sea level.

Records Available—May, 1904, to October, 1905; October, 1923, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923-40; 790 second feet, June 15, 1924. Gage height 3.73 feet.

Maximum Discharge—Year 1939; 250 second feet, June 6, 1939. Gage height 2.04 feet.

Maximum Discharge—Year 1940; 426 second feet, June 6, 1940. Gage height 2.95 feet.

Accuracy—Records considered good, except those for periods of ice effect, November 17-22, 28-30, 1939, and April 1-6, 1940, computed on basis of discharge measurements, weather records and comparison with records for North Platte near Walden, and which are fair. No record November 6, 1938, to April 14, 1939, and from December 2, 1939, to March 31, 1940.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 6, T. 8 N., R. 80 W., at highway bridge 8 miles southwest of Walden. Roaring Fork enters above station.

Drainage Area—446 square miles.

Records Available—May 13, 1904, to October 31, 1905; October 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923-40; 1,940 second feet, April 19, 1938. Gage height 5.74 feet.

Maximum Discharge—Year 1939; 866 second feet, May 4, 1939. Gage height 3.62 feet.

Maximum Discharge—Year 1940; 1,040 second feet, June 7, 1940. Gage height 3.96 feet.

Accuracy — Records considered excellent except those for periods of ice effect, April 16-17, 1939, computed on basis of gage heights and weather records, and those for ice period November 17, 18, 30, 1939, and for period no gage heights, April 1-6, 1940, and are fair.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR NORTHGATE, COLORADO

Location—Water stage recorder in Sec. 11, T. 11 N., R. 80 W., at highway bridge 6 miles south of Colorado-Wyoming state line, and 6 miles northwest of Northgate.

Drainage Area—1,440 square miles. Zero of gage is 7,806.98 feet above mean sea level.

Records Available—May to November, 1904; May, 1915, to September 30, 1940.

Maximum discharge observed during period 1904, 1915-40; 6,720 second feet, June 11, 1923. Gage height 6.24 feet.

Maximum Discharge—Year 1939; 1,720 second feet, June 2, 1939. Gage height 3.13 feet.

Maximum Discharge—Year 1940; 1,720 second feet, June 7, 1940. Gage height 3.17 feet.

Accuracy—Records considered excellent except those for periods of ice effect, November 7, 1938, to April 2, 25-29, 1939; and November 16, 1939, to April 3, 1940, which were computed on basis of 3 discharge measurements for each period, weather records, and records for station at Saratoga, Wyoming, and are fair. Those for June 17-22; July 8-13, 1940, were estimated on above basis.

Diversions for irrigation above station.

NORTH FORK OF NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 29, T. 9 N., R. 80 W., at Erickson ranch, ¼ mile upstream from mouth and 7 miles west of Walden.

Drainage Area—168 square miles.

Records Available—October, 1923, to September, 1928; May, 1937, to September 30, 1940.

Maximum discharge observed during period 1923-28, 1937-40; 694 second feet, April 19, 1926. Gage height 2.63 feet, former datum.

Maximum Discharge—Year 1939; 236 second feet, June 1, 1939. Gage height 1.83 feet.

Maximum Discharge—Year 1940; 331 second feet, May 22, 1940. Gage height 2.31 feet.

Accuracy—Records considered good except those for period of back water effect from September 19-30, 1939; computed on basis of 1 discharge measurement, and records for Roaring Fork near Walden. Those for period of ice effect, April 1-7, 1940, and for August 9-18, 1940, computed on same basis, all of which are fair.

Diversions for irrigation above station.

WILLOW CREEK NEAR RAND, COLORADO

Location—Water stage recorder in Sec. 23, T. 6 N., R. 79 W., 2.6 miles northwest of Rand, and 2½ miles above mouth.

Drainage Area—62 square miles.

Records Available—July 10, 1931, to September 30, 1940. (Discontinued.)

Maximum daily discharge observed during period 1931-40; 268 second feet, May 23, 1932.

Maximum Discharge—Year 1939; 116 second feet, June 1, 1939. Gage height 3.10 feet.

Maximum Discharge—Year 1940; 104 second feet, June 6, 1940. Gage height 2.97 feet.

Accuracy—Records considered good except those for period of back water effect from temporary dam, June 16 to July 9, 1939, computed on basis of records for station on Illinois near Rand. Records for April 1-8, 1940; August 28 to September 20. 22, 24, 1940, were computed on above basis and are fair.

Diversion for irrigation above station.

ILLINOIS CREEK NEAR RAND, COLORADO

Location—Water stage recorder in Sec. 30, T. 6 N., R. 78 W., 1 mile north of Rand and 2½ miles above mouth of Willow Creek.

Drainage Area—77 square miles. Zero of gage is 8,550.93 feet above mean sea level.

Records Available—July 11, 1931, to September 30, 1940. (Discontinued.)

Maximum daily discharge observed during period 1931-40; 655 second feet, May 23, 1932.

Maximum Discharge—Year 1939; 277 second feet, June 6, 1939. Gage height 1.61 feet.

Maximum Discharge—Year 1938; 222 second feet, June 3, 1940. Gage height 1.38 feet.

Accuracy—Records considered good except those for ice effect periods, April 17-20, 1938; April 1-8, 1940. April 14-17; June 9-13; August 28 to September 21-22, 1940, computed on basis of discharge measurements and records for Michigan River near Lindland.

Diversions for irrigation above station.

ILLINOIS CREEK AT WALDEN, COLORADO

Location—Water stage recorder in NW¼ Sec. 29, T. 9 N., R. 79 W., ½ mile southwest of Walden. Prior to July 1, 1937, station located 350 feet upstream at different datum.

Drainage Area—254 square miles. Zero of gage is 8,038.80 feet above mean sea level.

Records Available—May 1, 1917, to August 31, 1918, and May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1917-18, 1923-40; 2,520 second feet, May 28, 1926. Gage height 6.40 feet; former site and datum.

Maximum Discharge—Year 1939; 214 second feet, June 2, 1939. Gage height 2.49 feet; former site and datum.

Maximum Discharge—Year 1940; 127 second feet, June 8, 1940. Gage height 1.87 feet.

Accuracy—Records considered fair. Those for periods of missing gage heights, October 30 to November 4, 1939; April 1-6, 1940, were computed on basis of record for North Platte River at Northgate.

Diversions for irrigation above station.

MICHIGAN RIVER NEAR LINDLAND, COLORADO

Location—Water stage recorder in Sec. 21, T. 7 N., R. 77 W., at Cameron Pass highway bridge 3 miles southeast of Lindland, and 1 mile above mouth of North Fork of Michigan River.

Drainage Area—62 square miles. Zero of gage is 8,734.28 feet above mean sea level.

Records Available—July 12, 1931, to September 30, 1940.

Maximum discharge observed during period 1931-40; 663 second feet, June 11, 1933. Gage height 3.08 feet.

Maximum Discharge—Year 1939; 322 second feet, June 5, 1939. Gage height 1.94 feet.

Maximum Discharge—Year 1940; 242 second feet, June 1, 1940. Gage height 1.60 feet.

Accuracy—Records considered good except those for period of ice effect, April 1-8, 12, 13, 1940, computed on basis of North Platte River at Northgate.

Diversions for irrigation above station.

MICHIGAN RIVER AT HAWORTH SCHOOL, NEAR LINDLAND, COLORADO

Location—Water stage recorder in SE¼ Sec. 36, T. 8 N., R. 78 W., ¼ mile east of Haworth School, and 2½ miles northwest of Lindland.

Drainage Area—114 square miles.

Records Available—May, 1937, to September 30, 1939. (Discontinued.)

Maximum discharge observed during period 1937-39; 580 second feet, June 6, 1938. Gage height 3.50 feet.

Maximum Discharge—Year 1939; 402 second feet, June 6, 1939. Gage height 2.67 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

MICHIGAN RIVER AT WALDEN, COLORADO

Location—Water stage recorder in NW¼ Sec. 21, T. 9 N., R. 79 W., ½ mile north of Walden.

Drainage Area—185 square miles. Zero of gage is 8,044.87 feet above mean sea level.

Records Available—May 8, 1904, to October 31, 1905; June 1, 1908, to July 26, 1918; May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923-40; 1,070 second feet, June 10, 1923. Gage height 3.3 feet.

Maximum Discharge—Year 1939; 289 second feet, June 2, 1939. Gage height 2.29 feet.

Maximum Discharge—Year 1940; 199 second feet, June 7, 1940. Gage height 2.01 feet.

Accuracy—Records considered good. Record for period missing gage heights, November 2-4, 1939; April 1-10, 1940, computed on basis of record for North Platte River near Northgate.

Diversion for irrigation above station.

MICHIGAN RIVER NEAR COWDREY, COLORADO

Location—Water stage recorder in NE¼ Sec. 11, T. 10 N., R. 80 W., 1 mile above mouth and 1½ miles west of Cowdrey.

Drainage Area—218 square miles. Zero of gage is 7,878.28 feet above mean sea level.

Records Available—May, 1904, to October, 1905; May, 1937, to September 30, 1940.

Maximum discharge observed during period 1904-05; 1937-40; 925 second feet, April 19, 1938. Gage height 3.40 feet.

Maximum Discharge—Year 1939; 415 second feet, June 3, 1939. Gage height 2.45 feet.

Maximum Discharge—Year 1940; 150 second feet, June 8, 1940. Gage height 2.02 feet.

Accuracy—Records considered good. Those for April 1-5, 1940, computed on basis of record for North Platte River near Northgate and are fair.

Diversions for irrigation above station.

CANADIAN RIVER AT COWDREY, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 N., R. 79 W., 1,000 feet above mouth of Government Creek, and ½ mile north of Cowdrey. Prior to November 15, 1931, recorder 600 feet upstream at different datum. One small diversion between the two sites.

Drainage Area—201 square miles. Zero of gage is 7,869.54 feet above mean sea level.

Records Available—May, 1904, to October, 1905; May, 1929, to September, 1931; and May, 1937, to September 30, 1940.

Maximum daily discharge observed during period 1904-5, 1929-31, 1937-40; 600 second feet, June 10, 1905.

Maximum Discharge—Year 1939; 198 second feet, June 1, 1939. Gage height 3.34 feet.

Maximum Discharge—Year 1940; 134 second feet, June 7, 1940. Gage height 2.96 feet.

Accuracy—Records considered good except for period of ice effect, April 1-9, 1940, computed on basis of 1 discharge measurement and records for North Platte River near Northgate and weather records, and are fair.

Diversions for irrigation above station.

LARAMIE RIVER NEAR GLENDEVEY, COLORADO

Location—Water stage recorder in Sec. 25, T. 10 N., R. 76 W., just below mouth of Nunn Creek, and above Stub Creek at Sholine Ranch, and 1½ miles north of present location of Glendevey post office.

Drainage Area—101 square miles.

Records Available — June 24, 1904, to October 31, 1905; August 18, 1910, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1910-40; 2,240 second feet, June 9, 1923.

Maximum Discharge—Year 1939; 392 second feet, June 1, 1939. Gage height 2.90 feet.

Maximum Discharge—Year 1940; 402 second feet, June 18, 1940. Gage height 2.99 feet.

Accuracy—Records considered good, except those for period of ice effect November 1-8, 12-14, 18, 22-30, 1938, and November 15-26, computed on basis of weather records, and are fair.

Diversions for irrigation above station, and two trans-mountain diversions into Cache la Poudre River above station.

LARAMIE RIVER NEAR JELM, WYOMING

Location—Water stage recorder in Sec. 15, T. 12 N., R. 77 W., ¼ mile north of Colorado-Wyoming state line and 4 miles south of Old Jelm. Johnson Creek enters ½ mile below station.

Drainage Area—297 square miles. Zero of gage is 7,685.32 feet above mean sea level.

Records Available—June, 1904, to October, 1905; May 7, 1911, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1911-40; 4,200 second feet, June 9, 1923. Gage height 4.15 feet.

Maximum Discharge—Year 1939; 948 second feet, June 1, 1939. Gage height 3.02 feet.

Maximum Discharge—Year 1940; 888 second feet, May 28, 1940. Gage height 2.95 feet.

Accuracy — Records considered excellent. Discharge for periods of ice effect November 5, 1938, to April 5, 1939, computed on basis of 3 discharge measurements and weather records, and those during ice period effect November 16, 1939, to March 29, 1940, which were computed on basis of 3 measurements and weather records, and are fair.

Diversions for irrigation above station.

Discharge of South Platte River Above 11-Mile Canon Reservoir Near Hartsel, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	....	318	158	203	43
2....	....	....	....	....	....	....	....	....	315	142	201	42
3....	....	....	....	....	....	....	....	....	210	128	244	34
4....	....	....	....	....	....	....	....	....	130	128	189	29
5....	....	....	....	....	....	....	....	....	152	144	161	28
6....	....	....	....	....	....	....	....	....	174	138	148	27
7....	....	....	....	....	....	....	....	....	208	144	112	27
8....	....	....	....	....	....	....	....	....	179	126	99	30
9....	....	....	....	....	....	....	....	....	186	106	85	34
10....	....	....	....	....	....	....	....	....	156	110	72	33
11....	....	....	....	....	....	....	....	....	177	150	66	30
12....	....	....	....	....	....	....	....	....	205	119	58	30
13....	....	....	....	....	....	....	....	....	148	108	55	30
14....	....	....	....	....	....	....	....	....	132	106	45	30
15....	....	....	....	....	....	....	....	....	170	119	48	30
16....	....	....	....	....	....	....	....	....	165	115	48	29
17....	....	....	....	....	....	....	....	....	146	103	45	28
18....	....	....	....	....	....	....	....	....	134	92	39	27
19....	....	....	....	....	....	....	....	....	117	76	36	25
20....	....	....	....	....	....	....	....	....	95	69	31	24
21....	....	....	....	....	....	....	....	....	86	64	29	22
22....	....	....	....	....	....	....	....	....	95	61	29	22
23....	....	....	....	....	....	....	....	....	92	56	28	22
24....	....	....	....	....	....	....	....	....	94	50	28	23
25....	....	....	....	....	....	....	....	May 27	117	49	27	25
26....	....	....	....	....	....	....	....	to 31	132	69	30	27
27....	....	....	....	....	....	....	....	170	117	85	31	25
28....	....	....	....	....	....	....	....	138	119	97	31	23
29....	....	....	....	....	....	....	....	148	119	179	33	21
30....	....	....	....	....	....	....	....	191	138	144	41	20
31....	....	....	....	....	....	....	....	239	....	203	41	....
Total	....	....	....	....	....	....	....	886	4626	3438	2333	840
Mean.	....	....	....	....	....	....	....	177	154	111	75.3	21.3
Max..	....	....	....	....	....	....	....	239	318	203	244	43
Min...	....	....	....	....	....	....	....	138	86	49	27	20
Acre-ft.	....	....	....	....	....	....	....	1760	9180	6820	4630	1670

Total run-off for period=24,060 acre-feet.

Discharge of South Platte River Above Eleven Mile Canon Reservoir Near Hartsel, Colorado, for Year Ending Sept. 30, 1940

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	21	19	....	....	....	....	....	13	223	80	28	30
2....	20	15	....	....	....	....	....	12	254	105	25	29
3....	20	15	....	....	....	....	....	12	269	78	23	28
4....	20	16	....	....	....	....	....	7.6	285	36	21	28
5....	21	16	....	....	....	....	....	6.0	300	19	21	28
6....	20	13	....	....	....	....	....	5.5	306	18	22	28
7....	18	12	....	....	....	....	....	5.5	285	22	26	28
8....	19	Nov. 1	....	....	....	....	12	15	238	27	23	28
9....	25	to 7	....	....	....	....	....	27	238	29	25	82
10....	27	....	....	....	....	....	....	19	246	28	19	85
11....	25	....	....	....	....	....	....	14	236	26	19	44
12....	22	....	....	....	....	....	....	25	233	51	16	42
13....	19	....	....	....	....	....	....	54	241	78	12	39
14....	16	....	....	....	....	....	....	70	248	49	10	37
15....	17	....	....	....	....	....	....	55	251	45	8.4	36
16....	17	....	....	....	....	....	....	55	246	56	8.4	36
17....	17	....	....	....	....	....	Apr. 19	86	243	48	9.2	31
18....	17	....	....	....	....	....	to 30	125	208	50	12	28
19....	19	....	....	....	....	....	5.0	60	195	52	15	25
20....	18	....	....	....	....	....	4.0	33	131	52	19	21
21....	17	....	....	....	....	....	1.5	28	115	37	25	20
22....	16	....	....	....	....	....	0.9	28	93	49	28	28
23....	16	....	....	....	....	....	2.0	18	78	48	33	34
24....	16	....	....	....	....	....	6.8	12	65	48	31	51
25....	15	....	....	....	....	....	13	74	55	45	33	50
26....	15	....	....	....	....	....	16	165	48	44	32	46
27....	16	....	....	....	....	....	18	208	49	40	31	39
28....	18	....	....	....	....	....	16	223	45	44	31	33
29....	19	....	....	....	....	....	14	246	86	84	31	26
30....	23	....	....	....	....	....	13	223	74	36	29	27
31....	20	....	....	....	....	....	....	223	....	32	28	....
Total	589	106	....	....	....	....	110.2	2147.6	5584	1456	694	1087
Mean.	19.0	15.1	....	....	....	....	9.18	69.3	186	47.0	22.4	36.2
Max..	27	19	....	....	....	....	18	246	306	105	33	85
Min...	15	12	....	....	....	....	0.9	5.5	45	18	8.4	20
Acre-ft.	1170	210	....	....	....	....	219	4260	11080	2890	1380	2160

Total run-off for period=23,370 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at 11-Mile Canon Reservoir Near Lake George, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	90	20	....	....	....	....	7.2	10	242	76	167	17
2....	79	20	....	....	....	....	3.1	10	297	90	154	17
3....	63	6.8	....	....	....	....	3.1	10	122	109	240	17
4....	47	6.8	....	....	....	....	3.1	19	49	144	169	16
5....	47	6.8	....	....	....	....	3.1	53	38	144	88	16
6....	47	12	....	....	....	....	3.1	76	28	160	114	15
7....	55	12	....	....	....	....	3.1	114	28	171	139	14
8....	86	12	....	....	....	....	3.1	139	28	171	127	14
9....	70	12	....	....	....	....	7.2	139	27	93	72	14
10....	124	12	....	....	....	....	7.2	125	36	59	41	14
11....	122	12	....	....	....	....	7.2	109	46	98	35	14
12....	186	12	....	....	....	....	7.2	90	45	156	36	14
13....	186	12	....	....	....	....	7.2	79	39	77	28	14
14....	186	12	....	....	....	....	7.2	177	32	41	22	14
15....	186	12	....	....	....	....	7.2	154	33	73	22	14
16....	186	12	....	....	....	....	7.6	135	33	90	22	14
17....	65	12	....	....	....	....	7.6	141	34	94	22	14
18....	65	7.6	....	....	....	....	7.6	141	35	86	22	14
19....	36	7.6	....	....	....	....	7.6	127	35	65	22	14
20....	58	7.2	....	....	....	....	7.6	124	35	51	22	12
21....	58	7.2	....	....	....	....	7.6	124	35	47	22	11
22....	58	7.2	....	....	....	....	7.6	83	35	36	22	14
23....	47	7.2	....	....	....	....	10	93	34	30	22	10
24....	47	7.2	....	....	....	....	10	124	35	30	22	9.5
25....	47	7.2	....	....	....	....	10	237	35	23	20	9.5
26....	47	7.2	....	....	....	....	10	274	34	14	18	9.5
27....	47	7.2	....	....	....	....	10	290	34	36	17	10
28....	47	7.2	....	....	....	....	10	272	34	65	18	10
29....	22	7.2	....	....	....	....	10	177	34	112	18	8.0
30....	20	7.2	....	....	....	....	10	175	56	184	18	8.0
31....	20	....	....	....	....	....	....	171	....	186	17	....
Total	2444	298.8	217	217	196	217	212.5	3992	1628	2811	1778	391.5
Mean.	78.8	9.96	7	7	7	7	7.08	129	54.3	90.7	57.4	13.0
Max..	186	20	....	....	....	....	10	290	297	186	240	17
Min...	20	6.8	....	....	....	....	3.1	10	27	14	17	8
Acre-ft.	4850	593	430	430	389	430	421	7920	3230	5580	3530	777

Total run-off for water year 1938-39=28,580 acre-feet.

Discharge of South Platte River at 11-Mile Canon Reservoir Near Lake George, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.0	3.1	....	3.7	....	....	36	3.1	13	15	15	28
2....	8.5	2.5	....	3.7	....	....	36	2.8	19	15	11	27
3....	8.5	2.5	....	3.7	....	....	35	2.8	46	15	11	26
4....	8.5	2.5	....	3.7	....	....	35	2.5	43	14	11	26
5....	8.0	2.5	....	3.7	....	....	35	2.5	48	11	11	26
6....	6.8	2.2	....	3.7	....	....	35	2.5	79	10	12	26
7....	5.2	2.2	....	3.7	....	....	35	3.4	73	9.5	12	20
8....	5.2	1.9	....	3.7	....	....	31	2.5	34	8.5	12	18
9....	5.6	2.2	....	3.7	....	....	27	2.5	11	8.5	12	24
10....	5.2	2.2	....	3.7	....	....	27	2.5	20	8.5	12	37
11....	4.8	2.2	....	3.7	....	....	27	2.8	25	8.5	12	40
12....	5.2	2.2	....	3.7	....	....	27	3.1	18	8.5	12	35
13....	5.2	2.2	....	3.7	....	....	27	3.1	18	15	12	31
14....	4.8	2.2	....	3.7	....	....	27	18	18	22	12	28
15....	4.8	2.2	....	3.7	....	....	16	76	18	23	12	28
16....	4.8	2.2	....	3.7	....	....	19	40	18	23	12	28
17....	4.4	2.2	....	3.7	....	....	19	56	20	21	12	28
18....	4.4	2.2	....	3.7	....	....	8.5	144	31	20	12	28
19....	4.0	2.2	....	3.7	....	....	14	173	31	20	12	22
20....	3.7	2.2	....	5.6	....	....	9.5	83	31	21	12	18
21....	4.4	2.2	....	7.0	....	....	9.5	53	31	21	12	17
22....	4.4	2.2	....	7.0	....	....	6.8	53	31	21	8.5	17
23....	4.0	2.2	....	7.0	....	....	3.7	22	31	21	4.0	18
24.. ..	4.0	2.2	....	7.0	....	....	2.5	10	24	21	10	30
25....	4.0	2.2	....	7.0	....	....	3.4	17	20	21	17	47
26....	3.7	2.2	....	7.0	....	....	3.4	29	19	21	20	62
27....	4.0	2.2	....	7.0	....	....	3.4	18	18	21	28	58
28....	4.0	2.2	....	10	....	....	3.7	7.2	15	21	30	40
29....	4.0	2.2	....	10	....	....	3.4	8.5	12	20	30	43
30....	4.0	2.2	....	10	....	....	3.1	8.0	15	20	30	15
31....	4.0	....	....	10	....	....	....	12	....	19	29	....
Total	160.1	67.8	68.2	164.9	270	310	568.9	863.8	830	524	457.5	891
Mean.	5.16	2.26	2.20	5.32	9.31	10	19.0	27.9	27.7	16.9	14.8	29.7
Max..	8.5	3.1	....	10	....	....	36	173	79	23	30	62
Min...	3.7	1.9	....	3.7	....	....	2.5	2.5	11	8.5	4.0	15
Acre-ft.	318	134	135	327	536	615	1130	1710	1650	1040	907	1770

Total run-off for water year 1939-40=10,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	175	74	....	....	....	....	....	83	586	121	273	32
2....	157	79	....	....	....	....	April 4	89	712	168	221	34
3....	144	81	....	....	....	....	to 30	101	512	166	237	30
4....	123	59	....	....	....	....	161	107	243	175	347	26
5....	119	52	....	....	....	....	148	97	195	177	170	23
6....	121	....	....	....	....	....	146	142	181	168	131	20
7....	153	....	....	....	....	....	127	172	183	190	168	20
8....	365	....	....	....	....	....	87	202	170	202	168	20
9....	237	....	....	....	....	....	70	208	150	221	142	19
10....	316	....	....	....	....	....	89	198	136	111	89	19
11....	263	....	....	....	....	....	119	192	195	129	40	20
12....	266	....	....	....	....	....	113	166	352	161	43	19
13....	256	....	....	....	....	....	99	190	356	157	44	20
14....	253	....	....	....	....	....	101	270	253	95	38	21
15....	270	....	....	....	....	....	129	400	150	66	30	22
16....	253	....	....	....	....	....	121	296	110	119	37	24
17....	161	....	....	....	....	....	113	253	97	113	34	22
18....	136	....	....	....	....	....	83	288	97	133	30	21
19....	117	....	....	....	....	....	91	329	91	119	28	20
20....	107	....	....	....	....	....	105	304	77	93	29	19
21....	117	....	....	....	....	....	109	312	77	79	29	18
22....	119	....	....	....	....	....	119	360	81	72	26	15
23....	109	....	....	....	....	....	115	205	95	52	23	16
24....	109	....	....	....	....	....	115	240	144	40	23	14
25....	109	....	....	....	....	....	103	400	103	37	24	13
26....	103	....	....	....	....	....	81	586	101	33	46	13
27....	103	....	....	....	....	....	85	642	111	14	27	13
28....	105	....	....	....	....	....	85	544	109	74	23	13
29....	89	....	....	....	....	....	85	426	87	144	26	13
30....	79	Nov. 1	....	....	....	....	68	448	74	224	24	13
31....	76	to 5	....	....	....	....	....	415	....	253	24	....
Total	5110	345	....	....	....	....	2867	8665	5828	3906	2594	592
Mean.	165	69.0	....	....	....	....	106	280	194	126	83.7	19.7
Max..	365	81	....	....	....	....	161	642	712	253	347	34
Min...	76	52	....	....	....	....	68	83	74	14	23	13
Acre-ft.	10140	684	....	....	....	....	5690	17190	11560	7750	5150	1170

Total run-off for period=59,334 acre-feet.

Discharge of South Platte River Above Lake Cheesman, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	14	....	....	....	15	70	18	38	24	30	37
2....	13	19	....	....	....	10	70	19	38	26	24	37
3....	12	20	....	....	....	9.1	68	15	43	33	20	38
4....	11	18	....	....	....	13	68	16	83	48	24	43
5....	12	20	....	....	....	13	52	16	95	52	19	36
6....	13	18	....	....	....	13	77	15	133	36	19	34
7....	14	13	....	....	....	13	95	15	195	24	19	34
8....	13	12	....	....	....	13	54	16	146	20	21	32
9....	12	11	....	....	....	13	77	19	79	16	22	95
10....	11	12	....	....	....	23	72	23	51	13	22	115
11....	9.8	13	....	....	....	18	68	33	49	13	22	148
12....	9.8	12	....	....	....	23	38	34	70	13	22	166
13....	11	13	....	....	....	13	56	43	66	13	20	105
14....	12	13	....	....	....	7.7	56	48	63	16	19	63
15....	13	13	....	....	....	7.7	49	79	61	27	20	59
16....	14	10	....	....	....	13	38	107	61	36	19	59
17....	13	6	....	....	....	22	38	87	61	29	16	52
18....	16	5.8	....	....	....	37	36	200	59	24	16	49
19....	15	5.8	....	....	....	42	33	300	66	24	15	48
20....	15	5.8	....	....	....	52	30	243	68	27	13	42
21....	16	4.2	....	....	....	57	28	159	64	33	14	28
22....	15	3.0	....	....	....	62	26	181	64	44	19	28
23....	15	3.0	....	....	....	65	24	170	63	40	17	33
24....	17	2.6	....	....	....	69	23	85	61	34	40	33
25....	16	2.6	....	....	....	72	22	52	60	32	29	46
26....	16	2.6	....	....	....	84	22	52	58	32	36	66
27....	20	2.6	....	....	....	80	22	63	50	33	42	77
28....	9.1	2.6	....	....	....	77	21	56	40	36	46	64
29....	9.8	2.6	....	....	....	74	22	48	30	33	48	56
30....	16	2.6	....	....	....	73	23	51	22	32	40	51
31....	16	....	....	....	....	72	....	42	....	30	42	....
Total	418.5	282.8	86.8	130.2	139.2	1155.5	1378	2305	2037	893	775	1774
Mean.	13.5	9.43	2.8	4.2	4.8	37.3	45.9	74.4	67.9	28.8	25.0	59.1
Max..	20	20	....	....	....	84	95	300	195	52	48	166
Min...	9.1	2.6	....	....	....	7.7	21	15	22	13	13	28
Acre ft.	830	561	172	258	276	2290	2730	4570	4040	1770	1540	3520

Total run-off for water year 1939-40=22,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Below Lake Cheesman, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	250	95	28	21	20	21	134	201	568	317	314	117
2....	224	95	24	21	20	21	167	196	712	93	284	134
3....	222	95	24	21	20	21	201	203	591	242	264	145
4....	222	93	22	21	20	21	227	220	367	203	335	147
5....	190	78	22	21	20	21	208	208	253	150	284	145
6....	165	28	22	21	20	21	203	222	210	169	201	145
7....	210	28	22	21	20	21	184	258	194	169	199	126
8....	402	28	22	21	20	21	156	287	192	199	212	114
9....	462	28	22	21	20	21	126	317	184	230	194	114
10....	341	28	22	21	20	21	123	305	156	247	167	93
11....	451	28	22	21	21	21	141	296	177	143	112	93
12....	430	28	22	21	21	21	147	278	281	181	123	98
13....	381	28	22	21	21	21	143	275	348	302	118	114
14....	381	28	22	21	21	21	138	317	311	234	112	120
15....	354	28	22	21	21	21	164	458	201	122	150	125
16....	338	28	22	20	21	21	165	406	152	133	143	128
17....	296	28	22	20	21	21	145	364	133	480	156	130
18....	208	28	24	20	21	21	133	354	120	458	210	128
19....	164	28	24	20	21	21	131	370	117	556	215	126
20....	138	28	24	20	21	21	140	370	112	526	167	125
21....	136	28	24	20	21	21	152	354	106	402	123	122
22....	136	28	24	20	21	21	177	381	106	341	98	120
23....	147	28	24	20	21	21	217	348	114	147	93	120
24....	160	28	24	20	21	21	203	329	134	141	123	111
25....	160	28	24	20	21	21	199	388	143	118	140	111
26....	160	28	24	20	21	21	171	552	437	120	165	111
27....	143	28	24	20	21	21	171	638	437	134	177	108
28....	136	28	24	20	21	21	188	587	434	141	169	108
29....	136	28	24	20	....	21	210	488	406	240	150	111
30....	136	28	24	20	....	21	220	440	370	341	126	111
31....	126	....	24	20	....	67	....	437	....	264	102	....
Total	7405	1156	720	635	578	697	5084	10847	8066	7543	5426	3600
Mean.	239	38.5	23.2	20.5	20.6	22.5	169	350	269	243	175	120
Max..	462	95	28	21	21	67	227	638	712	556	335	147
Min...	126	28	22	20	20	21	123	196	106	93	93	93
Acre-ft.	14690	2290	1430	1260	1150	1380	10100	21510	16000	14960	10760	7140

Total run-off for water year 1938-39=102,670 acre-feet.

Discharge of South Platte River Below Lake Cheesman, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	111	110	15	34	20	16	10	38	80	76	120	128
2....	125	95	15	28	20	13	10	38	72	68	149	130
3....	131	74	15	20	20	12	10	38	72	62	117	145
4....	101	64	15	20	20	11	10	38	96	92	116	138
5....	98	44	15	20	20	11	10	38	116	128	116	136
6....	98	45	15	20	20	11	10	38	138	76	105	125
7....	111	52	15	20	20	11	10	38	232	70	108	120
8....	123	60	15	20	20	10	48	38	247	44	108	184
9....	122	60	15	20	20	10	100	38	128	42	108	194
10....	75	60	15	20	20	10	81	38	74	40	108	196
11....	69	47	15	20	20	10	68	38	74	39	108	160
12....	69	34	15	20	20	10	51	38	87	39	110	95
13....	69	29	15	20	20	10	51	49	106	56	133	162
14....	69	29	15	20	20	10	51	65	111	104	133	92
15....	64	29	15	20	20	10	61	73	95	118	131	65
16....	64	24	15	20	21	10	55	92	95	120	154	74
17....	73	22	15	20	21	10	28	122	117	120	261	81
18....	73	22	15	20	21	10	28	237	398	112	256	81
19....	73	22	15	20	21	10	28	320	395	91	250	81
20....	73	21	15	20	21	10	28	320	367	90	266	81
21....	72	18	15	20	21	10	28	326	378	90	266	81
22....	70	15	24	20	21	10	57	275	381	217	264	66
23....	70	15	32	20	21	10	76	242	378	326	234	58
24....	69	15	33	20	21	10	76	184	458	351	75	58
25....	70	15	34	20	21	10	76	184	533	367	65	98
26....	101	15	34	20	22	10	76	145	454	395	65	112
27....	116	15	34	20	23	10	86	97	184	423	59	112
28....	116	15	34	20	23	10	82	101	81	416	47	112
29....	116	15	34	20	23	10	62	117	78	108	84	112
30....	112	15	34	20	....	10	45	117	78	87	117	91
31....	111	....	34	20	....	10	....	112	....	93	128	....
Total	2814	1096	642	642	601	325	1412	3634	6103	4460	4361	3368
Mean.	90.8	36.5	20.7	20.7	20.7	10.5	47.1	117	203	144	141	112
Max..	131	110	34	34	23	16	100	326	533	423	266	196
Min...	64	15	15	20	20	10	10	38	72	39	47	58
Acre-ft.	5580	2170	1270	1270	1190	645	2800	7210	12110	8850	8650	6680

Total run-off for water year 1939-40=58,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of South Platte River at South Platte, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	250	166	101	82	34	23	120	374	487	185	156	75
2....	248	168	101	90	20	24	129	414	425	173	101	62
3....	242	170	89	83	22	26	133	421	381	163	112	54
4....	233	173	97	77	28	28	138	402	381	154	91	50
5....	233	142	93	74	33	32	144	388	384	151	80	44
6....	233	125	89	73	34	35	135	421	378	144	82	47
7....	274	80	88	72	34	41	140	370	353	216	82	50
8....	310	87	99	68	35	48	142	350	326	222	82	73
9....	268	95	89	52	32	58	149	346	310	216	72	70
10....	242	104	84	42	26	80	149	392	303	202	64	53
11....	233	116	72	38	38	62	138	388	278	195	62	50
12....	225	99	44	40	42	72	149	381	278	180	56	50
13....	216	69	38	44	46	80	170	357	274	108	53	46
14....	216	82	47	36	50	68	173	395	278	101	52	43
15....	225	97	79	22	45	60	173	357	281	97	48	44
16....	213	112	104	34	40	68	166	370	290	95	91	48
17....	213	114	69	27	30	50	151	374	287	91	95	56
18....	200	93	69	48	38	70	142	402	274	95	73	46
19....	190	101	112	52	35	85	161	417	256	89	48	41
20....	185	101	110	45	28	98	170	451	242	82	48	39
21....	185	89	95	54	25	115	173	432	227	77	58	38
22....	188	69	112	45	24	120	200	451	216	77	56	39
23....	182	70	80	55	32	133	245	462	213	72	50	36
24....	166	65	76	38	49	135	219	432	216	67	48	41
25....	168	72	70	48	37	127	219	428	222	70	47	43
26....	173	56	60	45	42	114	233	474	216	151	50	48
27....	163	97	50	52	31	125	239	447	205	195	50	47
28....	158	93	70	55	22	88	278	443	190	188	54	40
29....	154	94	80	45	....	86	353	455	190	168	59	43
30....	156	101	76	43	....	89	378	462	195	168	99	47
31....	166	....	75	55	....	108	....	462	....	213	112	....
Total	6508	3100	2518	1634	952	2348	5509	12718	8556	4405	2231	1463
Mean.	210	103	81.2	52.7	34.0	75.7	184	410	285	142	72.0	48.8
Max..	310	173	112	90	50	135	378	474	487	222	156	75
Min...	154	56	38	22	20	23	120	346	190	67	47	36
Acre-ft.	12910	6150	4990	3240	1890	4660	10930	25230	16970	8740	4430	2900

Total run-off for water year 1938-39=103,040 acre-feet.

Discharge of North Fork of South Platte River at South Platte, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	41	37	32	20	31	47	63	69	200	116	74	49
2....	40	38	33	21	31	48	64	70	202	128	67	44
3....	44	44	31	19	31	48	59	83	200	124	62	59
4....	54	47	29	18	31	48	57	104	190	130	60	62
5....	56	49	27	16	32	48	56	108	210	136	55	57
6....	56	45	25	15	31	49	62	92	215	122	55	46
7....	62	38	24	15	33	51	65	97	198	105	57	41
8....	56	38	23	15	34	53	58	108	177	99	62	46
9....	65	43	22	16	30	56	58	104	168	94	62	67
10....	69	47	21	17	34	58	61	120	179	85	57	118
11....	59	54	21	20	35	53	57	121	168	83	54	96
12....	59	56	20	19	31	51	49	133	161	90	54	74
13....	54	49	20	18	28	50	71	124	159	83	49	79
14....	48	45	20	16	30	55	67	113	163	79	44	92
15....	44	45	21	15	32	59	73	108	181	74	43	81
16....	41	43	21	16	31	62	77	118	200	97	43	72
17....	40	40	19	19	29	61	76	128	200	97	52	69
18....	39	38	20	16	31	58	70	143	188	96	46	69
19....	41	37	21	14	34	54	76	124	174	122	46	69
20....	42	35	21	13	30	56	81	115	172	108	49	74
21....	40	35	19	12	28	58	84	140	174	108	51	72
22....	38	35	18	13	27	60	90	142	184	103	52	72
23....	40	35	17	13	29	62	86	143	170	99	52	99
24....	42	35	17	14	32	62	83	160	165	130	76	108
25....	37	35	18	16	34	66	88	160	152	130	88	106
26....	33	34	18	21	36	69	97	158	142	128	78	96
27....	32	33	18	26	40	69	93	167	138	148	66	97
28....	31	32	17	29	44	65	89	166	132	142	59	90
29....	31	31	16	30	46	58	78	169	124	138	54	97
30....	32	31	17	32	....	57	72	171	116	90	54	101
31....	37	....	19	31	....	58	....	177	....	83	51	....
Total	1403	1204	665	575	945	1749	2160	3935	5202	3367	1772	2302
Mean.	45.3	40.1	21.5	18.5	32.6	56.4	72.0	127	173	109	57.2	76.7
Max..	69	56	33	32	46	69	97	177	215	148	88	118
Min...	31	31	16	12	27	47	49	69	116	74	43	41
Acre-ft.	2780	2390	1320	1140	1870	3470	4280	7800	10320	6680	3510	4570

Total run-off for water year 1939-40=50,130 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at South Platte, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	555	313	189	132	70	66	337	621	972	540	428	217
2....	515	307	180	143	55	70	398	654	1070	330	390	221
3....	515	307	159	138	56	74	424	671	1010	362	369	219
4....	500	300	169	127	68	78	510	654	832	402	377	214
5....	490	323	178	126	73	80	475	660	671	313	394	194
6....	460	242	169	125	74	90	442	713	616	326	307	194
7....	515	187	159	124	76	103	432	713	560	385	284	194
8....	638	233	167	122	75	120	419	701	530	406	316	210
9....	784	256	157	102	68	145	406	732	505	428	264	205
10....	594	235	157	82	63	190	394	790	485	465	269	165
11....	654	221	151	82	78	170	381	758	450	358	212	157
12....	671	208	130	84	88	180	290	725	500	340	187	155
13....	599	180	108	87	94	192	414	695	572	394	194	157
14....	610	191	110	85	102	170	410	770	572	358	187	203
15....	599	198	169	58	93	156	437	832	505	272	210	198
16....	566	212	187	76	84	170	456	846	446	224	247	182
17....	530	214	130	72	70	140	414	818	414	460	258	187
18....	428	187	120	90	85	200	394	811	385	550	272	171
19....	398	194	161	100	80	250	414	818	362	604	291	165
20....	358	191	165	88	77	272	455	874	351	610	245	167
21....	347	180	143	98	72	291	485	818	333	480	217	165
22....	337	150	167	90	78	310	525	846	323	446	180	167
23....	326	157	135	101	89	326	599	860	320	281	165	157
24....	355	125	132	80	99	310	572	719	326	233	175	155
25....	355	151	128	94	85	291	540	764	358	214	189	157
26....	351	122	112	87	90	281	525	1000	520	281	214	157
27....	355	194	100	95	74	291	520	1080	604	330	237	159
28....	347	169	118	98	65	237	555	1060	599	347	240	157
29....	337	173	132	88	....	228	626	1000	594	344	219	155
30....	340	194	126	90	....	224	638	909	566	480	247	157
31....	337	....	127	97	....	250	....	909	....	470	256	....
Total	14766	6314	4535	3061	2181	5955	13887	24821	16351	12033	8040	5361
Mean.	476	210	146	98.7	77.9	192	463	801	545	388	259	179
Max..	784	323	189	143	102	326	638	1080	1070	610	428	221
Min...	326	122	100	58	55	66	290	621	320	214	165	155
Acre-ft.	29290	12520	9000	6070	4330	11810	27540	49230	32430	23870	15950	10630

Total run-off for water year 1938-39=232,670 acre-feet.

Discharge of South Platte River at South Platte, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	155	151	55	58	61	98	155	173	355	226	212	173
2....	157	148	57	60	60	92	159	171	326	237	226	171
3....	171	130	56	49	58	86	146	184	313	228	205	230
4....	146	122	51	44	58	85	136	205	303	240	196	212
5....	143	107	48	42	60	85	134	203	344	316	189	205
6....	141	103	47	42	58	86	146	187	362	242	189	196
7....	144	104	46	41	60	90	146	187	398	208	194	184
8....	165	108	44	38	64	98	138	205	428	187	196	184
9....	175	112	43	43	59	108	214	203	369	169	182	194
10....	153	131	42	47	63	112	196	214	303	157	180	313
11....	133	136	40	49	66	112	184	214	278	157	178	340
12....	134	123	38	46	61	106	141	224	269	171	175	203
13....	134	110	38	43	56	105	182	214	278	155	187	224
14....	131	101	37	41	58	110	182	212	300	182	191	264
15....	128	92	39	40	62	115	196	212	297	212	191	173
16....	122	84	40	45	60	120	217	226	303	256	191	157
17....	122	80	36	47	58	118	187	266	294	247	288	155
18....	123	72	38	40	62	110	171	362	460	237	313	151
19....	123	68	39	36	67	108	182	442	520	240	307	153
20....	122	65	41	35	63	120	196	428	490	233	313	161
21....	119	63	38	34	57	132	203	500	495	230	323	159
22....	117	62	44	34	62	139	217	485	530	233	323	163
23....	116	61	49	35	67	146	235	490	520	377	410	169
24....	125	61	49	37	72	146	230	428	545	475	266	175
25....	114	60	49	42	80	155	237	410	660	470	187	184
26....	130	59	47	49	86	163	261	398	572	500	171	205
27....	153	58	46	54	92	165	253	358	465	540	159	212
28....	146	57	48	58	97	167	256	344	240	545	141	205
29....	146	56	50	62	97	151	221	358	226	307	134	210
30....	139	54	52	62	....	146	201	362	221	214	171	212
31....	155	....	54	61	....	146	....	362	....	208	180	....
Total	4282	2738	1401	1414	1924	3720	5722	9227	11464	8399	6768	5937
Mean.	138	91.3	45.2	45.6	66.3	120	191	298	382	271	218	198
Max..	175	151	57	62	97	167	261	500	660	545	410	340
Min...	114	54	36	34	56	85	134	171	221	155	134	151
Acre-ft.	8490	5430	2780	2800	3820	7380	11350	18300	22740	16660	13420	11780

Total run-off for water year 1939-40=124,950 acre-ft.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Waterton, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	216	245	191	57	50	40	292	391	504	112	300	64
2....	184	249	207	54	5	55	407	148	456	112	292	72
3....	184	258	138	50	5	55	407	195	370	164	253	85
4....	82	253	138	48	14	65	450	407	232	228	228	90
5....	95	262	123	25	25	62	418	346	109	135	262	67
6....	191	220	106	20	25	58	375	318	67	132	161	64
7....	199	112	95	12	30	65	385	310	70	184	123	57
8....	224	161	100	22	30	88	361	310	253	207	151	54
9....	274	228	98	42	20	98	346	323	300	172	106	54
10....	216	228	95	18	25	115	337	361	283	266	109	22
11....	241	187	90	25	45	135	328	445	258	164	95	10
12....	283	164	67	10	53	118	332	520	305	142	46	29
13....	216	109	70	40	55	120	287	576	385	172	44	15
14....	211	118	106	24	65	145	245	620	402	151	39	44
15....	207	123	115	10	75	123	258	626	332	100	42	48
16....	172	145	126	8	65	120	262	626	270	44	62	44
17....	172	132	100	10	55	118	232	598	245	60	90	52
18....	115	100	93	9	40	115	207	581	211	103	95	44
19....	93	106	129	12	54	158	232	587	237	184	118	46
20....	67	109	109	11	50	180	191	604	270	195	90	48
21....	142	106	87	11	50	207	253	520	211	112	72	46
22....	154	74	112	12	40	236	287	542	148	50	29	44
23....	123	109	93	16	45	258	327	604	138	67	29	42
24....	145	100	74	14	60	253	337	499	145	54	24	37
25....	142	132	74	12	75	241	323	576	176	39	22	37
26....	103	115	72	8	76	220	314	671	161	82	44	35
27....	98	142	82	7	58	228	332	592	158	142	70	27
28....	172	118	106	7	45	191	332	615	161	195	80	29
29....	228	129	100	43	....	176	361	548	154	168	74	31
30....	249	180	103	42	....	161	391	412	135	310	106	35
31....	266	....	72	51	....	158	....	488	....	351	148	....
Total	5464	4714	3271	730	1235	4362	9619	14959	7146	4597	3404	1372
Mean.	176	157	106	23.5	44.1	141	321	483	238	148	110	45.7
Max..	283	262	207	57	76	258	450	671	504	351	300	90
Min...	67	74	67	7	5	40	191	148	67	44	22	10
Acre-ft.	10840	9350	6490	1450	2450	8650	19080	29670	14170	9120	6750	2720

Total run-off for water year 1938-39=120,740 acre-feet.

Discharge of South Platte River at Waterton, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1....	35	95	16	3.0	40	7.3	62	118	211	37	50	67
2....	33	72	15	2.8	40	7.3	72	85	199	57	77	72
3....	46	39	15	3.3	41	6.1	70	90	180	67	60	123
4....	33	31	20	3.0	10	5.8	70	115	172	48	52	60
5....	25	19	22	3.0	6	6.5	60	109	180	106	50	20
6....	20	13	8.4	3.3	3.7	12	72	106	187	70	57	16
7....	25	16	11	4.4	3.6	12	80	98	50	39	60	14
8....	39	25	4.2	2.8	3.5	8.4	35	103	274	26	48	19
9....	39	25	3.3	3.3	3.3	16	26	106	232	19	28	37
10....	37	28	5.8	3.3	3.0	10	19	109	158	16	35	120
11....	23	28	3.9	2.8	3.2	8.4	19	109	123	23	39	274
12....	17	23	6.1	21	3.4	7.3	7.7	109	115	42	37	132
13....	28	23	4.2	12	3.3	35	19	112	109	13	57	90
14....	26	28	3.6	10	3.9	19	15	112	112	42	31	145
15....	25	33	3.6	8	4.4	13	12	115	120	64	26	62
16....	16	29	3.9	18	4.4	15	17	112	132	103	28	46
17....	17	23	6.9	17	5.0	23	11	129	120	90	115	35
18....	22	15	4.7	15	4.7	8.8	6.9	172	100	64	151	42
19....	20	14	4.2	10	3.3	10	5.8	216	100	72	142	52
20....	20	9.5	4.4	8	3.6	19	5.8	287	85	54	148	62
21....	17	8.4	3.9	35	9.5	26	60	253	82	54	151	60
22....	16	9.5	3.6	42	8.4	44	129	123	100	60	132	54
23....	17	11	3.9	40	6.5	64	148	187	103	93	253	57
24....	23	12	3.0	35	2.8	72	148	292	98	154	148	42
25....	16	50	3.0	30	3.0	72	158	253	138	109	90	7.7
26....	28	54	5.0	28	2.8	80	195	232	74	95	90	5.8
27....	50	57	4.7	30	4.2	90	191	207	64	118	72	4.7
28....	46	62	3.3	34	5.0	93	199	195	54	126	52	4.4
29....	46	46	2.8	35	6.5	82	168	203	42	100	42	4.7
30....	77	23	3.0	37	....	60	148	203	33	57	42	4.4
31....	100	....	3.0	39	....	62	....	199	....	48	52	....
Total	982	921.4	205.4	539	242.0	994.9	2229.2	4859	3747	2066	2415	1732.7
Mean.	31.7	30.7	6.63	17.4	8.34	32.1	74.3	157	125	66.6	77.9	57.8
Max..	100	95	22	42	41	93	199	292	274	154	253	274
Min...	16	8.4	2.8	2.8	2.8	5.8	5.8	85	33	13	26	4.4
Acre-ft.	1950	1830	407	1070	480	1970	4420	9640	7430	4100	4790	3440

Total run-off for water year 1939-40=41,530 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Denver, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	430	372	328	210	147	129	676	856	742	201	388	166
2....	406	418	350	230	87	190	717	734	693	179	366	76
3....	406	474	281	225	87	186	742	468	598	166	317	95
4....	372	455	266	235	87	178	830	709	401	282	282	102
5....	372	494	256	225	98	166	847	598	271	242	302	99
6....	401	468	281	215	119	166	847	474	159	166	277	80
7....	383	338	242	200	133	246	838	500	119	197	188	99
8....	406	328	261	205	103	576	742	514	222	282	170	88
9....	534	412	242	210	59	1490	725	481	360	349	192	84
10....	520	442	232	215	61	2340	709	481	377	377	140	73
11....	455	377	222	180	101	2180	660	548	372	312	133	52
12....	468	350	182	155	147	693	636	621	390	219	99	34
13....	418	281	129	165	190	591	668	760	440	228	73	31
14....	383	266	140	160	190	975	709	751	478	257	58	31
15....	366	276	218	155	186	548	777	760	452	214	48	66
16....	350	328	256	143	210	395	882	760	371	133	52	76
17....	350	333	198	123	151	317	865	725	297	76	80	69
18....	338	296	151	140	162	317	725	676	247	99	114	73
19....	286	276	206	166	206	709	742	629	247	179	125	84
20....	242	276	227	151	129	1060	856	629	302	232	148	80
21....	210	256	214	159	123	2300	856	621	277	197	140	88
22....	291	222	206	159	147	1700	795	583	201	91	88	76
23....	271	182	178	166	198	1720	847	561	157	48	55	58
24....	276	206	174	140	206	1900	1000	598	153	66	41	55
25....	291	222	190	143	194	1630	777	614	197	48	31	58
26....	261	206	159	119	198	1360	847	994	228	44	48	73
27....	246	237	116	129	72	1100	725	777	282	157	66	62
28....	266	256	162	133	126	994	760	777	242	317	88	58
29....	360	246	186	174	....	856	795	704	201	210	102	76
30....	366	302	190	174	....	734	874	541	223	297	106	76
31....	383	....	198	162	....	652	....	554	....	429	144	....
Total	11107	9595	6641	5366	3917	28398	23469	19995	9699	6294	4461	2238
Mean.	358	320	214	173	140	916	782	645	323	203	144	74.6
Max..	534	494	350	235	210	2340	1000	994	742	429	388	166
Min...	210	182	116	119	59	129	636	468	119	44	31	31
Acre-ft.	22030	19030	13170	10640	7770	56330	46550	39660	19240	12480	8850	4440

Total run-off for water year 1938-39=260,190 acre-feet.

Discharge of South Platte River at Denver, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	76	178	76	67	127	140	170	278	346	60	92	69
2....	66	170	70	65	118	124	166	214	315	94	96	84
3....	58	144	60	67	99	118	174	194	299	380	94	144
4....	62	116	61	69	86	121	174	206	284	130	69	284
5....	62	102	66	67	82	118	166	206	284	107	72	104
6....	55	79	62	27	72	178	240	198	480	92	72	186
7....	44	74	64	36	72	148	258	194	392	72	86	315
8....	52	69	86	42	69	152	202	232	304	65	77	127
8....	148	77	94	53	60	166	163	240	398	53	60	202
10....	117	86	90	67	62	170	219	194	374	49	57	620
11....	91	89	82	65	57	159	210	174	258	60	53	415
12....	73	86	76	60	57	140	163	166	216	121	51	403
13....	69	77	72	55	47	118	148	194	178	96	47	227
14....	84	82	74	51	57	124	148	186	152	62	42	253
15....	73	82	76	57	62	148	137	163	144	69	40	244
16....	69	79	74	82	53	152	133	159	137	89	38	148
17....	66	77	70	82	53	178	166	227	127	118	55	116
18....	66	74	64	68	53	178	190	448	116	84	144	130
19....	66	60	58	72	60	170	190	521	86	65	148	174
20....	65	60	54	78	57	166	166	480	62	77	155	159
21....	65	60	60	72	51	182	178	636	62	92	163	278
22....	60	60	57	67	53	210	240	448	72	82	273	454
23....	60	57	51	72	62	236	304	320	99	79	454	214
24....	62	60	53	77	67	244	346	494	102	113	236	232
25....	65	65	67	64	92	240	369	467	92	124	194	198
26....	62	77	62	76	92	249	448	441	99	124	315	159
27....	82	67	38	90	86	253	415	428	57	110	130	118
28....	113	72	53	102	86	236	403	403	67	236	96	110
29....	148	79	69	113	96	223	398	409	67	174	77	96
30....	148	80	72	124	....	194	330	454	57	107	67	133
31....	182	....	72	130	....	178	....	386	....	92	67	....
Total	2509	2538	2083	2217	2088	5413	7014	9760	5726	3276	3620	6396
Mean.	80.9	84.6	67.2	71.5	72.0	175	234	315	191	106	117	213
Max..	182	178	94	130	127	253	448	636	480	380	454	620
Min...	44	57	38	27	47	118	133	159	57	49	38	69
Acre-ft.	4980	5030	4130	4400	4140	10740	13910	19360	11360	6500	7180	12690

Total run-off for water year 1939-40=104,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Henderson, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	301	52	558	242	260	246	663	1010	1100	229	298	145
2....	350	57	558	306	150	237	717	810	1190	141	284	106
3....	237	148	511	296	130	237	800	618	1150	133	298	106
4....	261	192	459	306	125	246	860	564	890	165	241	122
5....	317	237	440	275	130	242	762	627	690	218	224	126
6....	379	280	453	270	140	237	840	537	501	112	270	122
7....	416	322	422	256	150	242	1100	645	319	87	218	141
8....	434	296	403	265	130	328	1170	717	305	100	186	137
9....	498	280	422	286	72	1460	1120	492	456	133	170	116
10....	572	350	391	301	72	3280	1010	438	582	181	122	87
11....	362	586	397	251	140	4150	850	600	681	191	122	78
12....	301	579	362	215	160	1600	790	780	753	93	78	81
13....	181	491	328	261	200	1100	820	1090	663	72	87	75
14....	123	440	296	256	180	1050	890	930	735	112	69	84
15....	114	466	328	251	160	744	1200	910	771	145	84	87
16....	109	491	373	204	165	438	1280	940	744	93	87	106
17....	103	322	379	211	165	326	1200	920	447	103	66	96
18....	103	280	350	232	150	235	1040	1000	396	87	69	103
19....	103	261	339	256	170	1050	930	708	312	84	84	119
20....	106	246	416	251	190	2250	900	800	429	109	100	109
21....	95	228	373	260	175	3250	840	800	636	112	137	96
22....	100	207	345	260	160	2640	770	744	546	93	119	109
23....	109	200	345	270	180	2350	730	900	356	100	96	93
24....	100	184	296	290	200	2110	750	960	305	103	87	57
25....	87	232	306	280	180	1850	672	790	372	93	90	87
26....	78	416	270	290	190	1360	717	1500	456	93	93	112
27....	76	434	223	290	160	1070	708	1080	429	96	122	109
28....	70	485	270	305	200	1070	880	890	333	137	106	100
29....	57	459	219	315	....	880	810	840	291	100	122	119
30....	56	504	232	320	....	780	940	690	247	100	137	112
31....	52	....	246	300	....	645	....	546	....	258	141	....
Total	6250	9725	11310	8371	4484	37703	26759	24876	17085	3873	4407	3140
Mean.	202	324	365	270	160	1216	892	802	570	125	142	105
Max..	572	586	558	320	260	4150	1280	1500	1190	258	298	145
Min...	52	52	219	204	72	235	663	438	247	72	66	57
Acre-ft.	12400	19290	22430	16600	8890	74780	53080	49340	33890	7680	8740	6230

Total run-off for water year 1938-39=313,350 acre-feet.

Discharge of South Platte River at Henderson, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	96	137	119	81	130	206	109	219	434	184	127	107
2....	90	133	112	84	124	275	109	192	462	290	124	100
3....	75	112	133	75	110	219	112	161	579	1010	146	114
4....	66	75	145	66	90	228	107	167	642	348	132	280
5....	63	44	152	60	86	237	80	170	749	246	122	135
6....	63	32	112	54	80	295	97	184	668	232	119	127
7....	63	25	103	48	78	300	140	164	469	181	119	506
8....	69	34	145	58	76	285	97	228	237	135	119	124
9....	109	66	165	67	70	330	140	202	588	92	107	114
10....	84	100	149	72	78	342	152	152	642	63	107	989
11....	50	145	119	78	76	342	132	137	427	84	104	396
12....	34	106	103	87	72	280	224	146	408	152	112	354
13....	25	55	96	76	72	265	132	167	420	158	117	206
14....	25	47	103	72	68	265	112	170	469	114	109	250
15....	25	50	109	72	68	312	107	140	490	107	88	348
16....	30	47	93	74	65	330	119	127	384	146	88	181
17....	50	42	66	78	62	324	149	206	402	152	95	130
18....	42	39	60	54	104	384	114	514	360	155	92	124
19....	39	32	55	59	130	408	161	514	295	177	84	117
20....	37	42	50	62	135	427	161	538	306	146	90	199
21....	32	30	69	52	137	448	219	893	324	109	95	722
22....	37	25	63	40	146	448	285	579	336	122	109	731
23....	27	25	55	44	161	455	336	330	318	122	408	300
24....	23	30	72	51	158	455	342	390	402	119	170	280
25....	34	30	55	47	164	498	318	476	280	119	127	506
26....	47	37	63	55	167	448	420	514	241	114	378	177
27....	52	66	75	64	167	215	414	554	184	107	124	109
28....	66	119	84	78	170	181	324	538	127	112	124	72
29....	87	137	87	90	174	146	306	522	155	295	127	53
30....	170	152	75	110	....	127	260	530	170	92	117	100
31....	186	....	87	125	....	119	....	469	....	119	112	....
Total	1896	2014	2974	2133	3218	9594	5778	10293	11968	5602	4092	7942
Mean.	61.2	67.1	95.9	68.8	111	309	193	332	399	181	132	265
Max..	186	152	165	125	174	498	420	893	749	1010	408	980
Min...	23	25	50	40	62	119	80	127	127	63	84	53
Acre-ft.	3760	3990	5900	4230	6380	19030	11460	20420	23740	11110	8120	15750

Total run-off for water year 1939-40=133,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Fort Lupton, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	394	130	635	344	407	288	793	695	886	240	235	62
2....	454	137	635	394	219	356	842	606	1050	200	213	54
3....	320	257	590	414	174	461	886	473	1080	149	244	43
4....	362	309	482	420	188	433	934	378	886	140	181	57
5....	420	362	475	362	188	400	902	372	751	200	159	57
6....	447	394	461	350	183	362	942	192	626	170	189	62
7....	518	400	440	350	196	489	1160	383	473	100	173	60
8....	387	368	427	350	188	752	1190	454	383	111	140	86
9....	440	427	454	362	104	2020	1120	372	424	120	104	65
10....	518	468	433	368	104	3750	1120	287	486	130	94	40
11....	326	680	427	338	196	4220	966	389	566	146	75	48
12....	262	680	394	304	214	2200	902	460	620	116	54	48
13....	188	574	350	338	248	1310	863	716	560	63	60	48
14....	140	510	304	338	228	1340	856	653	553	52	49	50
15....	127	558	374	320	205	1160	1020	653	593	98	58	54
16....	137	590	482	298	210	725	1210	626	633	88	48	62
17....	158	394	447	278	210	574	1100	653	442	65	50	55
18....	196	314	368	293	188	468	942	688	334	58	48	52
19....	214	298	362	338	201	966	863	533	334	54	63	55
20....	233	283	461	350	248	1900	835	500	344	62	60	57
21....	210	278	447	350	205	2510	793	553	454	81	62	52
22....	174	262	433	356	192	2420	723	493	454	73	72	58
23....	174	248	427	374	219	1940	674	533	318	60	49	63
24....	155	210	387	400	278	1700	744	620	235	60	49	43
25....	143	210	427	387	228	1470	660	593	235	68	48	37
26....	140	510	407	414	238	1170	566	886	287	62	43	70
27....	130	510	390	400	205	1080	546	894	297	65	50	58
28....	122	550	374	440	252	1040	620	716	278	75	46	52
29....	104	542	320	433	....	934	626	681	254	79	44	66
30....	92	574	293	454	....	856	647	606	231	49	57	77
31 ...	100	....	332	454	....	800	....	500	....	118	55	....
Total	7785	12097	13238	11371	5916	40094	26045	17158	15067	3152	2872	1691
Mean.	251	401	427	367	211	1293	868	553	502	102	92.6	56.4
Max..	518	680	635	454	407	4220	1210	894	1080	240	244	86
Min...	92	130	293	278	104	288	546	192	231	49	43	37
Acre-ft.	15440	23860	26260	22550	11730	79530	51660	34030	29880	6250	5700	3350

Total run-off for water year 1938-39=310,200 acre-feet.

Discharge of South Platte River at Fort Lupton, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	72	120	130	116	149	328	87	229	248	116	54	50
2....	44	100	116	108	146	412	89	180	280	167	40	54
3....	46	82	149	118	140	389	90	139	339	960	64	70
4....	43	63	162	116	130	339	87	110	405	492	70	177
5....	38	52	204	108	120	339	74	104	486	272	48	162
6....	31	38	159	90	104	394	70	104	452	226	58	104
7....	30	20	113	79	106	448	110	104	452	187	58	476
8....	40	21	136	70	108	418	83	132	187	144	66	142
9....	46	37	156	77	102	448	68	177	379	89	56	64
10....	82	44	159	82	106	412	83	154	510	54	48	965
11....	48	96	166	87	100	383	120	114	400	38	50	442
12....	31	116	152	91	88	355	173	92	349	76	54	384
13....	15	49	133	94	81	344	197	92	364	125	56	284
14....	10	37	140	80	88	318	122	122	379	74	50	240
15....	10	36	159	83	92	339	110	85	425	38	51	420
16....	12	36	156	86	98	328	102	68	384	81	52	260
17....	14	31	123	88	90	313	134	108	320	80	51	180
18....	28	30	104	89	166	350	137	400	306	75	52	147
19....	24	28	100	70	222	313	139	400	280	104	52	152
20....	25	25	94	69	235	297	144	374	244	120	57	215
21....	22	31	98	68	244	282	154	546	248	72	57	789
22....	25	28	100	68	244	308	197	516	252	57	62	768
23....	20	26	92	69	240	334	320	306	240	56	236	430
24....	17	31	90	70	263	350	364	252	260	48	190	320
25....	17	28	81	58	282	350	339	374	233	54	70	516
26....	25	30	88	63	302	350	400	364	167	50	240	306
27....	31	43	63	70	313	173	458	374	154	54	132	173
28....	26	116	86	80	297	134	394	359	100	52	63	137
29....	57	136	113	95	308	118	384	329	81	154	70	120
30....	166	140	130	120	....	104	284	374	85	60	60	106
31....	159	....	133	140	....	92	....	320	....	35	48	....
Total	1254	1670	3885	2702	4964	9862	5513	7402	9009	4210	2315	8653
Mean.	40.5	55.7	125	87.2	171	318	184	239	300	136	74.7	288
Max..	166	140	204	140	313	448	458	546	510	960	240	965
Min...	10	20	63	58	81	92	68	68	81	35	40	50
Acre-ft.	2490	3310	7710	5360	9850	19560	10930	14680	17870	8350	4590	17160

Total run-off for water year 1939-40=121,900 acre-feet.

Unless other wise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Near Kersey, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	369	536	1010	760	804	573	1380	1320	275	98	129	98
2....	423	542	1050	760	754	638	1350	1280	874	98	129	92
3....	438	600	1080	816	643	706	1370	1080	1100	92	134	88
4....	419	666	1020	848	621	779	1370	855	1070	92	134	87
5....	382	760	968	842	632	742	1380	589	855	88	134	94
6....	328	842	961	804	600	682	1380	419	557	89	112	101
7....	353	900	982	804	605	677	1470	275	289	118	99	104
8....	447	894	982	810	605	836	1610	244	159	122	98	112
9....	531	907	975	842	600	1230	1600	230	116	124	95	134
10....	616	954	968	829	600	1910	1560	172	127	96	91	151
11....	694	989	947	823	590	2780	1550	159	120	96	91	154
12....	706	1090	920	810	590	3450	1470	134	178	96	92	151
13....	700	1100	855	798	580	2500	1420	164	233	95	94	108
14....	627	1040	810	829	580	1850	1410	387	206	95	94	96
15....	568	1010	855	804	578	1860	1530	348	164	91	106	98
16....	542	1020	914	785	557	1630	1720	289	183	91	112	102
17....	531	1050	947	760	542	1450	1810	227	206	89	118	98
18....	536	933	887	760	568	1320	1750	203	159	91	118	98
19....	583	881	810	810	589	1250	1640	167	122	92	146	95
20....	621	848	823	829	506	1640	1600	124	112	89	156	95
21....	654	810	907	823	481	2240	1590	108	108	87	132	96
22....	649	798	907	823	516	2820	1530	106	102	87	98	95
23....	638	785	874	791	531	2700	1490	99	96	86	94	96
24....	632	754	836	791	578	2360	1530	91	92	84	96	101
25....	616	736	829	823	627	2150	1580	94	96	84	94	106
26....	583	736	810	829	627	1940	1330	96	96	86	91	101
27....	568	861	767	829	688	1770	1370	320	94	91	98	96
28....	557	927	660	823	547	1760	1300	400	83	94	95	99
29....	568	954	718	842	....	1650	1340	348	84	112	95	114
30....	568	961	700	816	....	1540	1330	316	104	132	95	151
31....	542	....	718	816	....	1450	....	244	....	134	95	....
Total	16989	25884	27490	25129	16739	50883	44760	10888	8060	3019	3365	3211
Mean.	548	863	887	811	598	1641	1492	351	269	97.4	109	107
Max..	706	1100	1080	848	804	3450	1810	1320	1100	134	156	154
Min...	328	536	660	760	481	573	1300	91	83	84	91	87
Acre-ft.	33700	51340	54530	49840	33200	100900	88780	21600	15990	5990	6670	6370

Total run-off for water year 1938-39=468,910 acre-feet.

Discharge of South Platte River Near Kersey, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	159	197	254	476	521	600	378	95	58	81	71	66
2....	156	189	289	476	526	627	344	89	61	83	68	62
3....	151	194	344	471	501	660	320	83	61	149	68	63
4....	149	194	316	462	501	654	312	80	61	1060	68	64
5....	116	194	304	466	526	621	308	80	66	616	66	71
6....	118	192	308	452	521	638	304	74	76	264	66	78
7....	112	178	300	396	526	666	300	68	96	183	66	78
8....	108	172	296	405	526	682	300	71	156	132	66	76
9....	108	172	286	423	521	649	296	64	172	106	66	82
10....	106	175	282	419	521	660	268	55	183	106	66	112
11....	106	178	275	423	526	654	278	53	203	132	66	374
12....	108	178	264	447	521	643	357	53	136	134	66	320
13....	112	180	261	438	511	610	419	53	102	136	66	218
14....	112	175	308	428	486	594	433	50	92	136	68	215
15....	106	172	348	423	481	589	369	48	91	102	68	215
16....	106	169	344	438	476	594	328	47	89	99	68	240
17....	106	172	353	428	462	583	308	48	87	98	68	203
18....	108	172	344	293	452	573	312	54	87	87	68	162
19....	112	172	344	224	486	562	278	59	82	80	68	132
20....	116	178	369	289	521	557	233	57	83	78	66	101
21....	118	183	396	332	531	552	212	70	82	80	68	96
22....	120	189	400	312	542	542	197	86	81	82	71	240
23....	122	189	414	308	542	547	180	99	81	81	72	433
24....	116	192	410	289	542	557	167	78	82	78	70	447
25....	112	189	410	308	568	578	154	68	78	78	68	391
26....	114	192	400	286	583	573	129	63	78	80	69	511
27....	110	200	414	328	594	573	116	68	78	83	68	452
28....	112	209	405	348	605	491	118	71	80	84	70	344
29....	112	230	391	382	600	438	118	70	80	80	69	264
30....	116	240	419	423	....	414	102	63	80	77	69	312
31....	192	....	452	447	....	391	....	61	....	75	66	....
Total	3719	5616	10700	12040	15219	18072	7938	2078	2842	4740	2103	6422
Mean.	120	187	345	388	525	583	265	67.0	94.7	153	67.8	214
Max..	192	240	452	476	605	682	433	99	203	1060	72	511
Min...	106	169	254	224	452	391	102	47	58	75	66	62
Acre-ft.	7380	11140	21220	23880	30190	35850	15740	4120	5640	9400	4170	12740

Total run-off for water year 1939-40=181,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Sublette, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	377	88	80	814	306	441	1620	278	295	168	131	131
2....	389	87	82	814	282	486	1530	265	401	166	131	133
3....	401	184	93	835	262	541	1480	397	919	164	129	129
4....	366	237	90	863	237	616	1380	639	1110	151	128	124
5....	350	113	81	877	220	722	1140	645	1080	154	129	120
6....	320	164	339	891	208	788	1090	496	863	159	128	115
7....	302	174	450	877	197	722	1130	393	639	161	131	110
8....	331	142	471	877	306	698	1620	331	409	171	137	115
9....	417	133	466	926	299	1040	1910	331	324	161	139	129
10....	496	118	462	947	220	1820	1880	285	272	154	144	122
11....	604	101	566	926	309	2800	1700	189	259	147	154	116
12....	656	101	900	905	417	3200	1590	166	240	159	159	113
13....	674	100	1010	912	516	4000	1530	168	226	156	156	110
14....	674	95	1000	912	551	2850	1560	228	231	164	174	111
15....	610	91	960	926	572	2260	1630	324	231	164	176	133
16....	561	88	1040	954	536	2180	1820	316	220	154	178	144
17....	531	85	1100	1000	471	1940	2040	306	211	151	168	147
18....	342	85	1140	989	454	1750	2140	290	223	144	137	137
19....	313	85	1100	982	413	1620	2080	260	223	137	131	139
20....	316	82	1030	1020	409	1650	2040	228	220	137	129	138
21....	285	82	1050	1040	433	2140	2040	206	228	139	126	137
22....	285	81	1100	1050	425	2450	2040	186	234	139	122	136
23....	285	82	1100	1070	450	2650	1980	176	220	144	228	135
24....	265	76	1010	1070	437	2550	1850	161	192	144	231	137
25....	139	75	970	1040	421	2500	1840	151	192	144	142	137
26....	120	76	940	1040	389	2250	1730	161	186	144	128	144
27....	106	76	910	1070	377	1940	1160	168	164	144	129	137
28....	95	81	860	1090	446	1800	511	358	151	142	131	135
29....	93	85	810	1070	....	1860	342	342	151	142	131	139
30....	91	83	830	1030	....	1790	306	324	164	149	131	147
31....	88	....	821	450	....	1700	....	313	....	128	129	....
Total	10882	3150	22861	29267	10563	55754	46709	9081	10478	4681	4517	3900
Mean.	351	105	737	944	377	1799	1557	293	349	151	146	130
Max..	674	237	1140	1090	572	4000	2140	645	1110	171	231	147
Min...	88	75	80	450	197	441	306	151	151	128	122	110
Acre-ft.	21580	6250	45340	58050	20950	110600	92650	18010	20780	9280	8960	7740

Total run-off for water year 1938-39=420,200 acre-feet.

Discharge of South Platte River at Sublette, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	159	154	186	67	67	66	85	168	103	95	110	97
2....	164	171	142	71	66	74	122	144	100	100	106	94
3....	174	178	128	74	69	71	139	124	106	108	104	94
4....	176	178	116	70	68	68	135	124	142	131	103	100
5....	176	161	115	68	66	65	137	124	164	639	100	100
6....	166	164	103	70	66	79	156	126	178	417	98	103
7....	174	166	82	69	66	98	168	133	181	269	90	115
8....	176	161	139	67	61	108	161	147	144	194	91	118
9....	174	154	178	70	61	111	234	147	166	164	85	120
10....	159	164	86	75	65	113	269	151	174	135	90	174
11....	147	178	80	71	64	113	272	156	181	131	88	159
12....	137	174	77	71	63	120	275	144	189	120	90	256
13....	135	171	80	70	64	124	186	128	161	118	90	275
14....	135	174	76	67	65	118	176	118	142	115	90	240
15....	133	168	76	63	64	122	174	118	126	115	88	256
16....	128	159	76	67	64	124	176	110	115	108	90	259
17....	128	159	75	74	65	120	189	106	110	103	93	272
18....	130	161	74	93	64	115	184	103	108	100	91	269
19....	140	149	77	128	64	115	184	103	106	98	91	249
20....	150	147	81	126	66	103	186	103	103	108	93	228
21....	166	159	76	111	68	74	192	113	118	113	95	217
22....	168	161	74	147	63	72	226	120	137	113	95	220
23....	166	156	80	126	62	72	249	124	156	113	98	320
24....	171	144	80	113	63	70	249	139	144	113	100	433
25....	176	128	75	93	63	69	228	133	113	111	97	309
26....	166	129	74	88	61	70	211	122	101	108	94	226
27....	147	178	76	90	62	72	200	124	98	110	95	226
28....	142	186	83	87	62	72	206	122	97	110	95	217
29....	142	181	83	82	60	71	194	118	98	110	95	256
30....	135	217	68	85	....	72	181	111	95	111	98	272
31....	137	....	69	77	....	71	....	106	....	110	100	....
Total	4777	4930	2885	2630	1862	2812	5744	3909	3956	4590	2943	6274
Mean.	154	164	93.1	84.8	64.2	90.7	191	126	132	148	94.9	209
Max..	176	217	186	147	69	124	275	168	189	639	110	433
Min...	128	128	68	63	60	65	85	103	95	95	85	94
Acre-ft.	9480	9780	5720	5220	3690	5580	11390	7750	7850	9100	5840	12440

Total run-off for water year 1939-40=93,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Balzac, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	100	19	20	685	769	480	1870	74	166	134	207	155
2....	93	19	19	620	700	394	1820	88	161	134	181	151
3....	122	20	19	527	627	324	1770	118	168	132	177	144
4....	157	22	19	462	578	376	1730	106	236	129	169	151
5....	93	24	18	444	536	417	1640	129	354	118	143	148
6....	53	22	18	447	504	490	1580	208	343	104	150	145
7....	33	20	20	415	445	621	1540	183	282	111	147	148
8....	31	21	22	359	419	751	1530	160	216	100	160	154
9....	25	21	23	472	392	993	1550	156	170	99	165	160
10....	25	20	24	636	387	3000	1580	147	164	99	159	162
11....	33	20	25	656	407	6880	1610	149	160	109	154	155
12....	23	20	70	692	574	7820	1580	139	180	131	149	145
13....	28	19	421	730	1190	4670	1550	134	181	133	149	151
14....	37	17	750	755	1270	4460	1530	133	165	131	147	132
15....	33	19	865	960	888	3180	1560	152	146	136	143	148
16....	32	21	1040	1200	676	2600	1540	208	143	144	136	157
17....	26	22	1080	1210	710	2490	1540	217	166	158	126	166
18....	23	23	1060	1220	704	2380	1570	188	165	149	128	166
19....	22	23	925	1160	609	2240	1580	159	189	152	128	162
20....	18	20	895	1100	539	2110	1570	135	205	140	138	172
21....	20	19	870	949	511	2080	1550	126	202	136	144	174
22....	20	19	850	1000	529	2100	1450	125	180	133	135	161
23....	18	19	833	1030	560	2120	1420	101	162	141	125	144
24....	19	19	802	975	594	2140	1450	79	172	151	134	151
25....	19	19	765	858	586	2120	1190	82	177	156	150	158
26....	21	22	739	848	455	2080	837	89	178	158	148	162
27....	20	21	711	857	405	2060	528	115	177	161	147	166
28....	20	19	671	858	506	2000	277	122	163	172	144	166
29....	20	19	667	825	....	1980	84	140	143	195	146	168
30....	19	21	660	825	....	1930	63	169	134	231	143	178
31....	19	....	667	835	....	1890	....	159	....	250	152	....
Total	1222	609	15568	24610	17070	69176	41089	4290	5648	4427	4624	4700
Mean.	39.4	20.3	502	794	610	2231	1370	138	188	143	149	157
Max..	157	24	1080	1220	1270	7820	1870	217	354	250	207	178
Min...	18	17	18	359	387	324	63	74	134	99	125	132
Acre-ft.	2420	1210	30880	48810	33860	137200	81500	8510	11200	8780	9170	9320

Total run-off for water year 1938-39=382,900 acre-feet.

Discharge of South Platte River at Balzac, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	175	119	90	18	22	20	17	170	138	178	125	118
2....	155	124	130	18	21	24	17	151	126	198	122	130
3....	144	122	153	19	21	22	18	135	142	176	115	143
4....	163	127	224	16	18	20	17	134	140	140	113	155
5....	177	125	248	13	18	19	16	117	118	122	132	162
6....	183	123	189	14	17	19	18	108	148	134	149	169
7....	182	119	124	14	17	19	19	97	373	199	147	166
8....	182	111	115	16	16	17	16	93	72	183	148	176
9....	200	103	101	14	14	18	27	88	51	142	142	173
10....	194	100	97	16	15	18	68	91	92	107	149	198
11....	175	100	94	16	14	16	42	92	116	102	132	444
12....	150	99	100	16	13	17	28	92	119	104	120	277
13....	134	100	93	17	12	19	26	107	115	107	121	236
14....	134	102	82	16	12	17	26	110	112	113	164	170
15....	135	104	84	14	12	16	22	104	130	110	163	147
16....	128	102	83	15	13	16	34	99	127	118	144	151
17....	124	100	66	17	13	17	39	108	121	116	144	222
18....	115	96	52	16	14	16	34	125	112	108	159	254
19....	101	87	51	14	15	14	43	119	100	104	165	258
20....	90	85	48	15	15	14	62	109	97	112	167	245
21....	87	82	44	16	16	13	62	116	90	115	175	219
22....	89	82	29	17	16	13	76	135	102	120	172	201
23....	88	77	26	18	16	21	79	136	109	113	175	215
24....	101	78	25	20	17	21	90	120	118	115	175	263
25....	124	79	28	20	17	19	95	120	113	117	177	407
26....	131	75	25	20	14	18	88	118	114	138	203	386
27....	145	76	27	21	16	18	95	128	126	170	164	262
28....	155	84	25	20	18	22	95	119	125	169	131	137
29....	156	89	30	20	18	16	156	145	143	174	126	119
30....	138	86	28	21	....	16	175	265	151	191	125	118
31....	123	....	23	22	....	18	....	145	....	126	118	....
Total	4378	2956	2534	529	460	553	1600	3796	3740	4221	4562	6321
Mean.	141	98.5	81.7	17.1	15.9	17.8	53.3	122	125	136	147	211
Max..	200	127	248	22	22	24	175	265	373	199	203	444
Min...	87	75	23	13	12	13	16	88	51	102	113	118
Acre-ft.	8680	5860	5030	1050	912	1100	3170	7530	7420	8370	9050	12540

Total run-off for water year 1939-40=70,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Julesburg, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	202	255	362	1000	942	873	1950	681	147	41	38	27
2....	223	248	360	1150	811	910	1850	546	175	40	35	27
3....	207	240	354	1170	800	931	1760	407	134	39	33	26
4....	193	285	352	1280	872	889	1720	297	111	36	31	26
5....	206	286	351	1180	928	807	1660	236	93	35	30	27
6....	219	284	350	1140	940	780	1650	204	82	33	29	31
7....	230	279	354	1040	891	767	1600	171	80	33	33	28
8....	248	281	352	1020	745	804	1560	145	79	34	30	29
9....	271	329	360	1090	606	921	1520	124	71	36	28	29
10....	276	328	358	1070	431	1060	1530	104	70	35	27	32
11....	291	326	362	1020	460	1230	1600	99	70	33	27	32
12....	312	329	377	1070	494	2070	1690	94	69	31	26	26
13....	320	316	409	1060	549	4580	1750	91	67	30	27	26
14....	327	319	427	1010	641	8520	1730	96	63	29	27	25
15....	342	312	381	1000	761	5830	1690	96	61	29	27	26
16....	357	312	384	1000	977	4540	1660	91	59	31	27	27
17....	361	310	474	1060	1170	3760	1640	81	58	36	26	27
18....	396	310	482	1180	1160	2910	1630	82	59	34	26	29
19....	382	305	600	1250	1050	2450	1660	78	54	33	28	26
20....	376	314	699	1280	1190	2120	1710	66	58	32	28	28
21....	376	316	856	1250	1210	1890	1720	65	49	32	27	28
22....	355	326	968	1250	1130	1740	1710	62	48	37	26	28
23....	349	352	1050	1240	983	1740	1660	58	44	41	26	34
24....	349	400	1040	1120	926	1880	1610	50	42	48	26	34
25....	347	388	1020	1120	891	1970	1540	50	45	45	26	34
26....	351	400	1020	1120	901	1990	1450	62	87	39	27	29
27....	328	370	834	1070	927	2030	1380	66	64	36	27	28
28....	305	367	720	1060	899	2050	1210	63	53	35	29	29
29....	262	368	694	1030	....	2080	970	60	43	33	27	30
30....	261	364	728	1030	....	2150	812	60	40	36	27	29
31....	261	....	863	1040	....	2030	....	73	....	43	27	....
Total	9283	9619	17941	34400	24285	68202	47622	4458	2174	1105	878	857
Mean.	299	321	579	1110	867	2200	1587	144	72.5	35.6	28.3	28.6
Max..	396	400	1050	1280	1210	8520	1950	681	175	48	38	34
Min...	193	240	350	1000	431	767	812	50	40	29	26	25
Acre-ft.	18410	19080	35590	68230	48170	135300	94460	8840	4310	2190	1740	1700

Total run-off for water year 1938-39=438,020 acre-feet.

Discharge of South Platte River at Julesburg, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	30	58	61	97	150	267	130	53	41	24	20	15
2....	30	55	80	106	139	302	111	52	39	26	19	15
3....	35	52	92	110	192	302	105	48	40	24	18	15
4....	36	55	94	68	188	286	89	46	41	23	19	18
5....	34	55	96	30	193	253	87	43	40	23	18	19
6....	36	53	81	60	227	238	68	42	46	23	18	19
7....	34	57	61	122	276	250	72	39	140	22	15	19
8....	37	56	58	131	289	256	71	38	99	22	18	19
9....	46	54	58	136	284	294	65	38	84	22	18	18
10....	43	52	55	155	299	301	61	33	78	22	17	19
11....	48	55	54	144	305	296	61	30	60	24	17	20
12....	51	52	53	117	311	294	69	36	55	27	18	20
13....	49	51	52	112	312	306	66	38	55	23	18	19
14....	50	50	55	86	303	325	64	40	52	21	18	18
15....	51	49	56	81	282	334	61	35	44	22	19	18
16....	52	49	58	102	270	343	56	38	37	21	22	17
17....	55	53	56	110	286	336	62	42	35	22	23	18
18....	54	53	54	93	310	318	59	41	31	21	24	18
19....	55	51	53	96	334	277	58	44	30	21	21	19
20....	55	53	52	97	311	264	57	44	32	21	20	18
21....	56	53	48	117	299	269	53	45	30	22	19	18
22....	57	52	46	117	296	266	52	41	30	21	18	18
23....	59	52	55	112	294	260	52	40	29	21	17	20
24....	61	52	77	98	278	263	53	39	28	20	17	21
25....	60	51	79	101	288	255	51	39	27	20	19	21
26....	57	51	71	95	286	231	50	44	27	20	18	22
27....	57	53	71	100	278	213	49	44	27	22	17	23
28....	57	55	72	118	266	208	48	47	27	22	17	22
29....	57	54	77	161	254	187	51	43	27	22	16	23
30....	57	55	85	176	....	163	50	42	23	22	15	23
31....	59	....	94	196	....	141	....	41	....	22	15	....
Total	1518	1591	2054	3444	7800	8298	1981	1285	1354	688	568	572
Mean.	49.0	53.0	66.3	111	269	268	66.0	41.5	45.1	22.2	18.3	19.1
Max..	61	58	96	196	334	343	130	53	140	27	24	23
Min...	30	49	46	30	139	141	48	30	23	20	15	15
Acre-ft.	3010	3160	4070	6830	15470	16460	3930	2550	2690	1360	1130	1130

Total run-off for water year 1939-40=61,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tarryall Creek Near Lake George, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	58	43	....	....	....	....	84	40	300	49	60	21
2....	53	45	....	....	....	....	93	45	190	72	33	20
3....	53	44	....	....	....	....	136	50	171	47	34	14
4....	55	26	....	....	....	....	113	52	109	33	36	12
5....	59	32	....	....	....	....	100	48	96	24	35	8.1
6....	62	....	....	....	....	....	90	48	98	20	26	5.0
7....	96	....	....	....	....	....	81	52	111	20	26	4.2
8....	235	....	....	....	....	....	54	48	104	32	31	3.2
9....	148	....	....	....	....	....	60	42	85	47	28	4.4
10....	164	....	....	....	....	....	62	41	75	37	22	5.0
11....	96	....	....	....	....	....	65	44	131	31	15	5.6
12....	54	....	....	....	....	....	54	46	222	31	10	5.6
13....	43	....	....	....	....	....	50	76	213	23	9.4	9.8
14....	46	....	....	....	....	....	62	180	137	18	9.0	11
15....	56	....	....	....	....	....	74	137	86	17	13	12
16....	60	....	....	....	....	....	71	95	71	16	17	9.8
17....	70	....	....	....	....	....	58	100	62	17	16	9.4
18....	56	....	....	....	....	....	52	104	60	32	13	8.1
19....	55	....	....	....	....	....	48	148	53	29	9.4	6.6
20....	51	....	....	....	....	....	57	118	46	22	9.0	5.4
21....	44	....	....	....	....	....	56	137	44	18	8.1	5.8
22....	47	....	....	....	....	....	75	177	48	13	6.0	4.8
23....	45	....	....	....	....	....	70	115	62	8.7	5.8	4.4
24....	50	....	....	....	....	....	50	130	80	7.8	6.0	3.4
25....	51	....	....	....	....	....	40	157	49	6.6	6.6	3.6
26....	40	....	....	....	....	....	36	188	50	6.6	5.6	3.2
27....	42	....	....	....	....	....	32	201	58	7.5	5.4	3.2
28....	41	....	....	....	....	....	33	104	50	46	9.8	2.8
29....	45	....	....	....	....	....	34	102	37	51	12	3.6
31....	44	Nov. 1	....	....	....	....	34	143	25	31	10	2.6
31....	43	to 5	....	....	....	81	....	170	....	44	16	....
Total	2062	190	....	....	....	....	1924	3138	2923	857.2	543.1	217.6
Mean.	66.5	38.0	....	....	....	....	64.1	101	97.4	27.7	17.5	7.25
Max..	235	45	....	....	....	....	136	201	300	72	60	21
Min...	40	26	....	....	....	....	32	40	25	6.6	5.4	2.6
Acre-ft.	4090	377	....	....	....	....	3820	6220	5800	1700	1080	432

Total run-off for period=23,519 acre-feet.

Discharge of Tarryall Creek Near Lake George, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.6	10	....	....	....	....	20	4.0	6.0	8.4	8.1	5.4
2....	3.0	15	....	....	....	....	19	3.0	6.9	8.4	7.2	5.8
3....	3.2	17	....	....	....	....	17	2.4	11	23	13	5.4
4....	4.2	17	....	....	....	....	15	1.8	28	14	14	5.2
5....	5.2	16	....	....	....	....	17	1.4	36	14	11	5.0
6....	5.2	10	....	....	....	....	18	1.2	74	13	13	4.8
7....	3.8	7.2	....	....	....	....	19	1.2	109	9.8	13	5.2
8....	2.0	....	....	....	....	....	17	1.4	67	5.6	12	6.0
9....	2.2	....	....	....	....	....	17	3.0	29	3.2	13	20
10....	2.0	....	....	....	....	....	16	13	22	3.2	13	58
11....	3.8	....	....	....	....	....	13	18	26	1.5	14	26
12....	4.8	....	....	....	....	....	8.4	24	48	0.8	11	25
13....	4.2	....	....	....	....	....	9.8	31	46	1.1	13	18
14....	5.4	....	....	....	....	....	7.5	38	44	3.0	13	15
15....	9.0	....	....	....	....	....	8.1	42	42	1.7	14	15
16....	6.0	....	....	....	....	....	9.0	20	44	1.6	10	15
17....	4.2	....	....	....	....	....	12	26	46	1.5	6.6	15
18....	13	....	....	....	....	....	13	71	42	1.4	4.6	15
19....	6.6	....	....	....	....	....	11	59	41	1.6	4.2	15
20....	6.9	....	....	....	....	....	10	29	38	3.8	7.5	4.8
21....	5.4	....	....	....	....	....	9.0	32	35	8.1	13	7.8
22....	5.6	....	....	....	....	....	8.7	69	34	7.5	15	14
23....	8.7	....	....	....	....	....	7.8	63	34	7.8	25	20
24....	12	....	....	....	....	....	6.3	22	33	4.6	13	24
25....	5.4	....	....	....	....	....	5.8	17	32	5.0	22	24
26....	5.8	....	....	....	....	....	9.4	13	26	5.6	22	24
27....	5.2	....	....	....	....	....	10	11	15	6.6	9.4	24
28....	2.6	....	....	....	....	....	10	8.7	12	5.8	5.8	22
29....	5.4	....	....	....	....	....	12	8.7	11	6.0	4.0	15
30....	6.3	....	....	....	....	....	7.8	7.5	9	7.8	1.8	15
31....	3.6	....	....	....	....	....	....	5.8	....	9.8	5.4	....
Total	163.3	....	....	....	....	....	363.6	648.1	1046.9	195.2	351.6	474.4
Mean.	5.27	....	....	....	....	....	12.1	20.9	34.9	6.30	11.3	15.8
Max..	13	....	....	....	....	....	20	71	109	23	25	58
Min...	2.0	....	....	....	....	....	5.8	1.2	6	0.8	1.8	4.8
Acre-ft.	324	....	....	....	....	....	721	1290	2080	387	697	941

Total run-off for period=6,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Goose Creek Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	45	32	....	....	....	....	33	97	106	31	22	11
2....	52	34	....	....	....	....	34	101	70	32	16	9.2
3....	53	33	....	....	....	....	35	103	56	28	15	7.7
4....	50	35	....	....	....	....	36	105	50	25	14	7.1
5....	56	....	....	....	....	....	36	98	48	26	13	6.8
6....	56	....	....	....	....	....	38	90	50	24	13	6.8
7....	81	....	....	....	....	....	38	86	40	23	15	6.8
8....	105	....	....	....	....	....	34	91	36	22	15	8.6
9....	84	....	....	....	....	....	36	88	38	19	13	11
10....	72	....	....	....	....	....	36	89	40	17	11	8.3
11....	67	....	....	....	....	....	31	85	40	15	11	8.3
12....	61	....	....	....	....	....	32	85	42	14	13	8.9
13....	57	....	....	....	....	....	40	85	38	14	14	8.0
14....	54	....	....	....	....	....	48	97	38	15	12	7.0
15....	51	....	....	....	....	....	46	80	36	17	11	6.2
16....	49	....	....	....	....	....	42	80	32	15	12	6.2
17....	46	....	....	....	....	....	38	85	31	15	13	5.9
18....	42	....	....	....	....	....	35	80	30	13	8.0	5.3
19....	44	....	....	....	....	....	40	77	30	11	7.1	5.0
20....	38	....	....	....	....	....	46	70	32	11	6.8	5.0
21....	38	....	....	....	....	....	56	70	32	11	7.1	5.0
22....	39	....	....	....	....	....	85	68	32	11	7.1	5.0
23....	36	....	....	....	....	....	106	65	30	11	6.8	5.6
24....	37	....	....	....	....	....	83	63	27	11	6.2	7.1
25....	37	....	....	....	....	....	82	65	28	10	6.2	7.7
26....	36	....	....	....	....	....	81	77	31	14	7.1	6.5
27....	36	....	....	....	....	....	82	70	30	20	6.8	6.5
28....	36	....	....	....	....	....	103	62	28	19	6.2	6.5
29....	32	....	....	....	....	....	115	59	29	18	7.8	6.5
30....	34	Nov. 1	....	....	....	....	114	58	30	17	7.4	6.5
31....	34	to 4	....	....	....	....	....	58	....	18	10	....
Total	1558	134	....	....	....	....	1661	2487	1180	547	333.6	212.0
Mean.	50.3	33.5	....	....	....	....	55.4	80.2	39.3	17.6	10.8	7.07
Max..	105	35	....	....	....	....	115	105	106	32	22	11
Min...	32	32	....	....	....	....	31	58	27	10	6.2	5.0
Acre-ft.	3090	266	....	....	....	....	3290	4930	2340	1080	662	420

Total run-off for period=15,878 acre-feet.

Discharge of Goose Creek Above Lake Cheesman, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.5	8.0	....	....	....	4.0	16	19	33	16	12	6.8
2....	6.2	8.0	....	....	....	3.0	16	23	31	19	9.5	7.4
3....	5.9	8.3	....	....	....	2.0	15	23	29	17	9.8	7.1
4....	5.9	8.0	....	....	....	3.0	15	23	28	42	11	8.3
5....	5.3	7.7	....	....	....	3.0	15	19	27	30	9.2	10
6....	4.6	7.7	....	....	....	3.0	15	19	26	23	8.9	8.3
7....	5.0	7.4	....	....	....	3.0	16	22	26	19	9.8	7.4
8....	5.6	7.4	....	....	....	3.0	15	19	24	15	10	14
9....	6.8	7.1	....	....	....	3.0	15	18	23	14	9.2	25
10....	7.4	8.0	....	....	....	5.0	15	17	28	13	8.3	65
11....	6.5	8.6	....	....	....	5.0	13	11	30	13	7.7	36
12....	6.2	8.8	....	....	....	6.5	12	11	24	13	8.0	25
13....	6.5	9.0	....	....	....	4.0	12	12	22	20	8.3	25
14....	7.1	8.4	....	....	....	3.0	11	15	20	23	6.8	30
15....	7.4	7.7	....	....	....	3.0	11	14	19	17	6.2	24
16....	7.4	6.2	....	....	....	4.0	27	17	20	20	7.1	21
17....	7.4	5.3	....	....	....	6.5	33	14	20	17	7.4	19
18....	7.4	4.4	....	....	....	8.6	37	26	17	13	7.1	19
19....	7.1	4.0	....	....	....	9.5	34	32	15	16	10	18
20....	7.1	3.5	....	....	....	11	42	23	14	17	9.5	19
21....	5.6	3.2	....	....	....	13	66	110	13	17	8.3	19
22....	4.8	2.6	....	....	....	13	67	70	13	15	7.4	23
23....	5.0	2.6	....	....	....	16	52	38	14	13	8.3	28
24....	5.3	2.6	....	....	....	13	52	62	14	12	16	33
25....	5.3	2.6	....	....	....	15	53	50	11	11	20	34
26....	5.3	2.6	....	....	....	15	53	43	10	10	13	32
27....	5.3	2.6	....	....	....	16	52	41	11	11	9.8	28
28....	6.5	2.6	....	....	....	16	74	43	11	10	8.6	25
29....	6.5	2.6	....	....	....	16	38	42	11	11	7.4	24
30....	5.9	2.6	....	....	....	15	32	38	11	11	7.1	25
31....	8.0	....	....	....	....	15	....	36	....	13	6.8	....
Total	192.8	170.1	68.2	83.7	121.8	256.1	924	950	595	511	288.5	666.3
Mean.	6.22	5.67	2.2	2.7	4.2	8.26	30.8	30.6	19.8	16.5	9.31	22.2
Max..	8.0	9.0	....	....	....	16	74	110	33	42	20	65
Min...	4.6	2.6	....	....	....	2	11	11	10	10	6.2	6.8
Acre-ft.	382	337	135	166	242	508	1830	1880	1180	1010	572	1320

Total run-off for water year 1939-40=9,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Morrison, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	189	66	38	35	14	19	65	109	66	27	25	24
2....	155	68	36	36	6.2	26	65	109	58	26	24	17
3....	171	72	34	32	8.2	29	72	109	53	25	23	12
4....	140	70	34	24	8.9	28	74	109	49	22	20	9.6
5....	137	66	42	22	12	21	72	114	46	22	17	8.9
6....	140	52	39	23	16	19	62	114	43	21	15	9.6
7....	114	43	36	24	18	26	81	104	40	22	15	12
8....	114	54	38	23	10	33	95	107	40	24	18	21
9....	119	60	41	21	6.5	47	95	99	39	23	19	23
10....	104	58	38	20	10	83	90	99	37	21	12	18
11....	107	56	34	18	12	61	76	92	40	19	12	14
12....	87	40	25	22	19	48	83	97	43	15	12	12
13....	80	28	13	22	15	58	95	97	40	15	13	11
14....	68	27	22	20	13	48	92	109	38	14	13	12
15....	77	40	40	18	12	31	97	99	38	16	12	12
16....	81	34	36	20	14	31	95	92	34	13	12	12
17....	79	30	32	19	19	26	70	92	32	13	11	11
18....	76	27	34	22	22	37	90	85	29	14	9.6	9.6
19....	74	34	30	19	20	49	99	87	29	12	8.9	8.2
20....	72	37	25	18	15	57	95	81	30	12	9.6	8.2
21....	74	34	25	17	16	61	99	74	32	11	11	7.6
22....	72	28	26	17	23	62	109	70	31	10	8.9	7.6
23....	68	23	27	18	19	60	104	68	28	8.2	6.9	9.6
24....	72	25	31	20	22	63	107	65	27	6.2	6.2	9.6
25....	70	24	36	22	25	63	107	65	31	6.2	6.9	12
26....	68	24	22	12	23	58	107	66	30	8.2	7.6	12
27....	68	30	20	13	25	56	102	58	27	15	9.6	12
28....	66	39	22	19	20	42	122	58	25	19	14	12
29....	65	41	25	19	....	45	126	56	26	17	17	16
30....	66	39	24	14	....	48	114	52	29	23	27	15
31....	66	....	26	16	....	57	....	52	....	24	30	....
Total	2939	1269	951	645	443.8	1392	2760	2688	1110	523.8	446.2	378.5
Mean.	94.8	42.3	30.7	20.8	15.8	44.9	92.0	86.7	37.0	16.9	14.4	12.6
Max..	189	72	42	36	25	83	126	114	66	27	30	24
Min...	65	23	13	12	6.2	19	62	52	25	6.2	6.2	7.6
Acre-ft.	5830	2520	1890	1280	880	2760	5470	5330	2200	1040	885	751

Total run-off for water year 1938-39=30,840 acre-feet.

Discharge of Bear Creek at Morrison, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	20	6.2	9.2	11	25	23	18	42	24	15	16
2....	12	22	6.2	9.2	11	19	24	17	40	26	15	14
3....	11	21	5.3	9.0	11	19	20	22	38	26	14	40
4....	11	17	5.3	8.4	11	15	18	28	37	29	16	39
5....	9.6	16	4.0	7.8	11	15	19	26	46	27	15	26
6....	10	16	4.0	7.2	11	20	23	24	41	24	16	21
7.. ..	11	15	5.8	7.4	11	19	25	23	38	21	15	20
8....	12	15	6.2	8.0	11	19	19	29	34	20	15	22
9....	19	14	10	8.8	12	19	19	25	33	17	15	23
10....	20	15	8.9	9.6	12	19	20	25	38	16	15	32
11....	15	11	8.2	9.0	11	19	18	26	31	18	10	27
12....	16	13	9.6	8.8	10	15	13	29	27	19	12	23
13....	16	11	5.8	9.0	9	13	26	26	26	17	9.6	23
14....	16	11	5.8	9.4	8.6	17	23	22	25	12	8.2	30
15....	16	10	13	10	8.5	19	25	19	25	10	7.6	26
16....	15	6.9	12	11	8.4	25	29	22	25	21	9.6	24
17....	15	4.0	10	9	8.6	29	27	26	25	29	17	22
18....	15	1.7	6.9	8.6	8.6	22	24	37	21	26	16	20
19....	15	1.7	1.1	8.6	8.8	25	28	29	19	27	15	21
20....	15	3.1	8.9	8.8	10	26	32	28	17	26	23	34
21....	12	4.4	10	9.1	12	26	33	39	17	27	19	30
22....	4.0	6.2	8.9	8.8	11	26	31	34	18	25	19	38
23....	9.6	10	8.6	8.6	12	28	26	31	20	20	19	33
24....	10	8.9	8.0	8.5	13	28	26	32	19	16	17	40
25....	12	3.6	7.8	8.2	15	28	27	36	18	15	107	45
26....	11	0.8	7.2	8.8	14	28	36	38	20	16	38	40
27....	13	5.8	5.4	9.4	15	27	33	41	22	16	24	38
28....	16	9.6	4.9	10	20	25	30	41	25	16	18	34
29....	18	12	6.4	10	23	21	26	43	24	16	17	39
30....	17	6.9	7.8	11	....	22	24	45	25	15	15	41
31....	22	....	8.4	11	....	22	....	45	....	16	15	....
Total	428.2	312.6	226.6	280.2	338.5	680	747	926	836	633	587	881
Mean.	13.8	10.4	7.31	9.04	11.7	21.9	24.9	29.9	27.9	20.4	18.9	29.4
Max..	22	22	13	11	23	29	36	45	46	29	107	45
Min...	4	0.8	1.1	7.2	8.4	13	13	17	17	10	7.6	14
Acre-ft.	849	620	449	556	671	1350	1480	1840	1660	1260	1160	1750

Total run-off for water year 1939-40=13,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Mouth at Sheridan Junction, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	41	5.7	64	45	22	3.6	47	98	12	6.5	5.3	4.0
2....	41	8.0	66	45	16	3.6	46	92	16	5.9	6.2	4.4
3....	40	15	56	47	19	3.4	65	73	12	5.6	6.2	4.0
4....	30	15	56	43	25	4.0	96	51	10	5.0	5.3	4.0
5....	20	17	54	35	21	2.6	98	41	9.2	5.3	5.9	5.0
6....	15	19	58	43	21	3.6	98	29	7.4	4.8	6.2	4.4
7....	16	23	52	45	24	6.5	128	26	7.4	5.3	5.6	4.6
8....	15	30	54	43	45	14	134	23	7.7	6.2	5.6	6.2
9....	11	40	58	45	42	19	136	25	6.2	4.0	4.4	5.3
10....	10	41	58	35	41	24	125	29	8.0	3.4	4.8	4.2
11....	13	38	58	27	39	48	128	27	15	5.0	3.8	4.6
12....	8.0	37	54	34	38	36	119	27	12	4.2	5.6	4.2
13....	7.2	34	31	41	38	37	121	30	9.2	2.4	7.1	5.0
14....	5.7	37	31	40	30	35	99	28	13	3.2	5.3	6.2
15....	5.1	37	50	25	40	14	125	25	12	4.8	3.4	5.3
16....	3.6	72	72	34	26	12	136	23	11	4.2	4.2	5.3
17....	3.0	82	60	34	33	10	119	22	10	3.6	3.0	5.0
18....	3.6	70	45	38	45	9.6	98	19	8.0	4.8	3.6	5.3
19....	4.5	66	49	38	38	16	94	19	6.5	4.2	3.6	6.2
20....	4.8	80	68	38	30	29	103	21	7.1	4.2	4.8	6.2
21....	4.2	80	66	37	21	47	98	20	7.1	4.2	3.8	5.0
22....	5.7	70	58	34	16	52	78	14	5.3	5.3	3.8	5.6
23....	4.5	68	49	31	14	51	89	12	4.4	4.8	4.0	5.3
24....	4.5	54	45	26	11	61	94	10	4.4	4.4	4.0	7.4
25....	4.5	64	47	28	11	73	82	9.6	5.6	4.6	3.6	7.4
26....	3.9	45	47	24	10	67	99	29	3.0	5.0	3.8	5.9
27....	3.6	66	30	26	17	61	96	19	6.2	6.2	3.8	5.9
28....	3.6	62	60	27	3.4	58	94	16	6.8	6.2	3.6	6.5
29....	3.6	60	54	25	....	58	94	21	6.5	5.9	3.8	8.0
30....	4.2	70	47	23	....	51	94	13	8.0	5.6	5.3	7.7
31....	5.7	....	47	27	....	46	....	12	....	5.6	4.2	....
Total	345.5	1405.7	1644	1083	736.4	955.9	3033	903.6	257.0	150.4	143.6	165.0
Mean.	11.1	46.9	53.0	34.9	26.3	30.8	101	29.1	8.57	4.85	4.63	5.50
Max..	41	82	72	47	45	73	136	98	16	6.5	7.1	8.0
Min...	3.0	5.7	30	23	3.4	2.6	46	9.6	3.0	2.4	3.0	4.0
Acre-ft.	685	2790	3260	2150	1460	1900	6020	1790	510	298	285	327

Total run-off for water year 1938-39=21,480 acre-feet.

Discharge of Bear Creek at Mouth at Sheridan Junction, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.3	8.0	10	10	10	7.4	6.5	5.0	4.2	3.4	6.5	2.4
2....	4.6	7.7	9.2	10	11	9.2	6.8	4.4	2.4	4.8	3.2	2.6
3....	5.0	7.7	9.2	10	11	10	6.5	3.0	2.4	12	3.6	3.0
4....	5.3	7.1	8.4	8.3	11	8.8	6.2	4.6	2.2	12	4.6	4.8
5....	5.0	6.8	8.8	8.0	11	8.8	5.6	4.0	2.0	8.4	6.5	4.4
6....	4.8	5.6	9.2	7.0	11	12	7.1	4.6	1.6	4.8	10	6.2
7....	5.0	6.8	9.2	7.4	11	14	6.2	3.8	1.4	4.4	12	5.9
8....	5.6	8.0	9.2	8.0	11	11	4.8	4.8	1.2	4.8	7.7	5.3
9....	5.9	8.8	9.6	8.5	12	14	5.0	3.8	0.9	3.8	2.8	7.1
10....	5.9	7.7	9.2	9.0	12	13	5.9	3.8	1.0	3.8	2.8	14
11....	5.9	7.4	8.8	8.3	9.4	15	6.5	4.4	1.2	5.0	2.8	10
12....	5.6	6.5	8.8	8.2	8.4	14	8.4	4.4	3.0	3.8	3.0	9.2
13....	5.6	6.5	9.2	8.6	7.8	16	5.3	4.0	4.2	3.8	3.6	7.4
14....	7.1	6.5	8.8	9.0	7.6	16	4.0	5.6	3.0	2.6	3.6	10
15....	6.8	7.1	8.4	9.9	7.6	16	3.6	5.9	2.8	2.6	2.6	9.2
16....	7.1	6.8	8.8	11	7.5	15	4.4	5.3	3.6	3.6	1.8	10
17....	7.1	6.5	8.0	9.0	7.5	15	6.2	8.0	3.2	8.4	2.4	10
18....	7.4	7.1	8.4	8.8	7.8	14	5.3	26	2.8	5.9	3.6	12
19....	6.5	6.8	11	8.6	7.4	14	4.4	8.8	2.8	5.6	3.4	12
20....	5.9	6.8	8.8	8.8	8.8	12	2.6	4.6	2.8	2.6	5.6	12
21....	7.1	7.4	8.0	9.0	12	11	2.6	13	2.8	2.6	5.0	16
22....	7.1	7.7	7.7	8.8	9.2	9.6	2.6	16	3.0	2.8	3.4	11
23....	7.7	7.7	8.0	8.7	7.1	10	2.8	11	4.6	2.8	3.6	10
24....	8.4	7.7	7.0	7.8	9.2	9.6	3.0	7.4	4.2	3.6	4.8	23
25....	8.8	8.4	7.1	7.0	9.6	8.8	3.0	10	5.0	3.8	67	11
26....	8.0	9.2	7.0	7.5	8.8	8.8	4.0	12	4.6	4.4	37	8.4
27....	7.1	8.0	6.8	8.2	7.4	8.8	4.2	16	4.4	7.4	10	7.7
28....	7.7	9.2	8.9	9.0	7.4	8.4	3.4	20	4.4	3.4	7.4	8.0
29....	8.4	9.6	8.8	9.8	7.1	7.7	3.6	14	2.8	3.4	5.3	7.1
30....	7.4	9.2	9.0	10	....	7.7	4.2	14	3.4	5.6	2.6	7.1
31....	8.0	....	9.8	10	....	6.8	....	10	....	4.6	2.6	....
Total	203.1	226.3	269.1	272.2	268.6	352.4	144.7	262.2	87.9	150.5	240.8	266.8
Mean.	6.55	7.54	8.68	8.78	9.26	11.4	4.82	8.46	2.93	4.85	7.77	8.89
Max..	8.8	9.6	11	11	12	16	8.4	26	5.0	12	67	23
Min...	4.6	5.6	6.8	7.0	7.1	6.8	2.6	3.0	0.9	2.6	1.8	2.4
Acre-ft.	403	449	534	540	533	699	287	520	174	299	478	529

Total run-off for water year 1939-40=5,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Franktown, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	3.2	3.5	3.1	52	15	5.5	9.5	1.4	1.2	1.6
2....	....	....	3.8	3.6	3.3	26	9.5	4.8	5.2	1.6	1.1	1.5
3....	....	....	3.6	3.6	3.8	13	7.2	3.8	3.6	17	1.1	69
4....	....	....	4.1	3.6	4.1	10	6.5	3.2	3.2	10	1.1	23
5....	....	....	3.6	3.4	3.8	15	5.2	3.0	1.7	4.8	1.1	5.2
6....	....	....	3.8	4.1	3.6	7.2	7.2	3.0	115	3.0	1.2	4.1
7....	....	....	4.8	3.8	3.6	7.8	17	3.0	26	1.7	.8	6.2
8....	....	....	3.8	4.1	3.6	10	28	18	15	1.4	.7	4.5
9....	....	....	3.6	3.8	4.0	6.9	38	11	18	1.3	.8	4.1
10....	....	....	3.4	3.6	4.6	11	28	6.5	19	1.0	.7	46
11....	....	....	2.8	3.4	4.4	17	26	5.2	13	2.0	.7	15
12....	....	....	2.8	3.3	4.0	22	24	4.1	7.8	2.6	.7	6.9
13....	....	....	3.2	3.2	4.8	42	58	4.1	7.2	2.4	.7	5.8
14....	....	....	3.4	3.1	5.6	20	42	4.1	6.2	1.6	.6	27
15....	....	....	2.2	3.1	5.0	23	28	3.6	5.8	1.4	.6	7.8
16....	....	....	2.6	3.8	4.7	25	25	3.4	5.2	1.7	.6	5.2
17....	....	....	2.6	3.6	4.7	34	24	12	3.8	1.6	.7	3.2
18....	....	....	2.5	2.4	5.0	29	16	106	3.6	1.3	.6	2.6
19....	....	Nov. 21	2.4	2.5	4.7	29	13	27	2.6	1.2	.7	2.0
20....	....	to 30	2.7	2.7	4.5	42	11	12	2.4	1.3	.7	1.6
21....	....	3.6	2.5	2.6	4.6	50	7.8	38	2.6	1.5	.7	1.5
22....	....	2.8	2.0	2.5	4.7	52	7.2	52	2.6	16	18	1.5
23....	....	2.6	2.4	2.6	4.8	61	6.9	21	2.2	4.8	21	1.8
24....	....	3.0	2.6	2.5	4.8	50	5.8	12	2.2	2.8	6.5	1.4
25....	....	3.0	2.0	2.4	5.8	50	6.5	8.4	2.0	2.4	22	2.8
26....	....	2.8	2.0	3.0	7.2	48	21	5.2	1.8	2.6	10	3.0
27....	....	2.8	2.0	4.0	11	36	14	5.2	1.5	1.5	3.2	2.8
28....	....	3.0	2.1	4.6	22	34	6.5	31	1.5	1.1	2.6	1.8
29....	....	3.4	2.4	4.5	32	25	8.4	73	1.4	1.2	1.8	1.3
30....	....	3.2	2.8	3.4	....	21	7.2	28	1.2	1.3	1.7	20
31....	....	....	3.2	3.3	....	18	....	15	....	1.2	1.8	....
Total	....	30.2	90.9	103.6	181.8	886.9	519.9	532.1	292.8	96.7	105.7	280.2
Mean.	....	3.02	2.93	3.34	6.27	28.6	17.3	17.2	9.76	3.12	3.41	9.34
Max..	....	3.6	4.8	4.6	32	61	58	106	115	17	22	69
Min...	....	2.6	2.0	2.4	3.1	6.9	5.2	3.0	1.2	1.0	.6	1.3
Acre-ft.	....	60	180	205	361	1760	1030	1060	581	192	210	556

Total run-off for period=6,200 acre-feet.

Discharge of Cherry Creek Near Melvin, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	0	5.0	20	22	11	9.9	8.8	0.3	4.0	13
2....	0	0	0	5.0	18	23	7.7	7.7	5.5	82	3.0	12
3....	0	0	0	5.5	15	32	9.9	7.7	3.3	200	2.0	126
4....	0	0	0	4.0	17	20	7.7	2.2	2.2	18	1.4	131
5....	0	0	.6	3.5	18	29	11	1.1	1.1	12	1.0	72
6....	0	0	0	3.0	12	19	18	0	420	10	.8	459
7....	0	0	0	3.5	7.2	28	31	0	87	5.0	.6	33
8....	0	0	.4	4.5	1.2	30	26	20	54	2.0	.6	18
9....	0	0	2.0	5.0	2.0	28	43	22	30	.9	.6	157
10....	0	0	.6	7.0	3.0	31	36	9.9	33	.4	.6	58
11....	0	0	0	5.5	7.2	33	40	5.5	22	36	.4	26
12....	0	0	0	4.5	3.0	18	18	0	15	43	.3	19
13....	0	0	0	4.0	2.5	31	50	0	9.8	26	.2	10
14....	0	0	.2	5.0	7.2	40	40	0	5.5	18	.2	12
15....	0	0	.3	4.5	4.0	34	22	0	3.5	12	.2	14
16....	0	0	.4	7.8	3.5	37	20	0	3.0	12	.2	11
17....	0	0	1.5	5.0	14	37	26	4.4	1.4	9.8	.2	7.8
18....	0	0	.8	3.5	19	41	20	70	.9	5.5	.2	4.0
19....	0	0	0	2.5	17	41	11	29	.8	3.5	.2	2.5
20....	0	0	0	2.0	20	48	20	20	.4	1.5	.2	2.5
21....	0	0	.9	1.8	28	56	20	43	.4	6.0	.2	40
22....	0	0	.6	1.8	33	54	7.7	43	.2	13	195	28
23....	0	0	.4	1.5	33	63	9.9	15	.2	5.5	36	26
24....	0	0	.2	1.4	32	40	13	15	.2	.9	7.8	23
25....	0	0	.8	1.3	32	36	18	11	.2	.6	300	21
26....	0	0	.8	1.7	34	31	46	11	.3	.6	38	19
27....	0	0	.8	2.0	33	13	20	22	.3	2.5	20	17
28....	0	0	.3	2.0	32	9.9	9.9	29	.2	189	16	16
29....	0	0	1.4	4.0	26	15	18	53	.2	10	15	15
30....	0	0	1.8	17	....	13	18	59	.2	4.0	14	15
31....	0	....	4.0	23	....	13	....	22	....	4.5	14	....
Total	0	0	18.8	147.8	493.8	965.9	648.8	532.4	709.6	734.5	672.9	1407.8
Mean.	0	0	.61	4.77	17.0	31.2	21.6	17.2	23.7	23.7	21.7	46.9
Max..	0	0	4.0	23	34	63	50	70	420	200	300	459
Min...	0	0	0	1.3	1.2	9.9	7.7	0	.2	.3	.2	2.5
Acre-ft.	0	0	37	293	979	1920	1290	1060	1410	1460	1330	2790

Total run-off for water year 1939-40=12,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek Near Golden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	231	128	....	....	....	67	86	342	798	387	188	106
2....	218	143	....	....	....	67	86	387	705	368	188	94
3....	213	128	....	....	....	68	96	414	685	348	167	90
4....	213	128	....	....	....	65	98	414	776	330	155	80
5....	231	146	....	....	....	65	115	407	798	330	147	80
6....	231	111	....	*70	....	66	106	470	787	325	141	79
7....	222	108	....	....	....	69	92	387	745	315	164	80
8....	190	170	....	....	....	70	92	354	695	325	161	90
9....	174	166	....	....	....	70	94	335	636	325	141	88
10....	199	136	....	....	....	72	96	387	655	310	108	84
11....	195	132	....	....	....	80	96	400	645	305	118	82
12....	199	99	....	....	....	76	96	394	636	310	110	80
13....	195	67	....	....	....	74	108	380	645	300	110	80
14....	186	65	....	....	*55	73	112	380	695	285	106	82
15....	182	64	....	....	....	54	115	428	705	280	100	79
16....	174	65	....	....	....	80	118	526	665	280	96	79
17....	154	68	....	....	....	67	100	494	645	271	118	79
18....	150	70	....	....	....	79	106	486	626	257	115	77
19....	158	70	....	*65	....	82	122	542	560	239	115	73
20....	150	70	....	....	....	92	125	685	526	227	118	73
21....	150	70	....	....	....	92	129	715	494	210	110	71
22....	146	68	....	....	....	98	152	735	442	202	110	70
23....	132	68	....	....	....	98	198	818	414	191	106	70
24....	136	69	....	....	....	98	198	787	428	191	102	71
25....	132	72	....	....	....	90	210	766	456	188	104	82
26....	136	70	....	....	....	92	218	665	421	188	94	86
27....	139	76	....	....	....	98	248	616	414	198	90	84
28....	136	75	....	....	....	77	267	588	421	195	88	80
29....	132	74	....	....	....	82	315	665	421	178	98	79
30....	128	74	....	....	....	80	325	725	407	174	112	71
31....	128	....	....	....	....	84	....	766	....	191	115	....
Total	5360	2850	2170	2077	1680	2425	4319	16458	17946	8223	3795	2419
Mean.	173	95.0	70.0	67.0	60.0	78.2	144	531	598	265	122	80.6
Max..	231	170	....	....	....	98	325	818	798	387	188	106
Min...	128	64	....	....	....	54	86	335	407	174	88	70
Acre-ft.	10630	5650	4300	4120	3330	4810	8570	32640	35600	16310	7530	4800

Total run-off for water year 1938-39=138,290 acre-feet.

*Discharge measurement.

Discharge of Clear Creek Near Golden, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	67	48	33	29	40	54	54	72	705	494	227	104
2....	64	48	31	28	39	51	57	72	745	502	210	102
3....	62	47	32	28	39	48	51	85	766	494	202	106
4....	62	45	32	27	38	46	48	120	745	470	198	128
5....	58	47	28	25	38	44	51	155	776	421	198	112
6....	58	47	26	23	40	42	60	152	735	394	198	104
7....	60	45	27	24	42	40	57	188	578	354	191	102
8....	60	47	22	25	45	41	50	227	588	325	181	104
9....	70	50	25	27	44	44	50	191	502	305	158	130
10....	64	40	25	29	43	47	51	218	470	300	155	178
11....	64	43	24	30	45	46	45	290	510	325	158	147
12....	61	44	22	30	47	43	38	361	560	320	135	118
13....	61	43	21	29	48	40	55	400	588	295	128	125
14....	68	40	20	28	47	41	54	325	695	276	118	128
15....	70	38	21	30	45	43	61	315	725	257	128	118
16....	68	40	23	31	47	47	68	387	645	267	104	108
17....	68	39	23	30	47	48	67	486	685	290	118	108
18....	70	42	21	28	45	46	60	394	685	374	110	110
19....	68	34	20	28	44	44	66	315	665	407	122	108
20....	64	39	19	30	45	47	76	295	705	348	135	125
21....	62	40	21	32	46	45	85	330	715	315	141	125
22....	62	42	22	34	46	45	90	280	695	305	158	128
23....	55	41	21	34	46	54	85	262	636	280	128	110
24....	47	39	20	32	48	55	96	280	607	262	125	122
25....	48	35	19	33	50	54	102	295	560	253	171	118
26....	50	32	20	35	53	55	92	315	534	235	155	112
27....	48	30	20	36	54	57	100	348	486	239	152	130
28....	39	31	21	35	56	55	104	348	510	280	144	125
29....	47	33	23	37	55	47	92	449	518	276	128	158
30....	37	34	24	39	....	48	78	502	478	267	120	150
31....	48	....	27	41	....	50	....	569	....	257	115	....
Total	1830	1223	733	947	1322	1467	2043	9026	18812	10187	4711	3643
Mean.	59.0	40.8	23.6	30.5	45.6	47.3	68.1	291	627	329	152	121
Max..	70	50	33	41	56	57	104	569	776	502	227	178
Min...	37	30	19	23	38	40	38	72	470	235	104	102
Acre-ft.	3630	2430	1450	1880	2620	2910	4050	17900	37310	20210	9340	7230

Total run-off for water year 1939-40=110,960 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek at Mouth Near Derby, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	12	5.0	81	59	30	79	70	58	373	134	13	1.5
2....	12	9.2	51	50	32	90	62	62	493	93	12	1.3
3....	12	22	43	39	38	70	45	66	498	85	12	1.2
4....	12	60	42	32	50	68	29	68	487	76	10	1.2
5....	12	121	43	26	50	63	17	68	503	68	10	1.5
6....	23	117	41	43	50	67	128	71	496	49	12	1.5
7....	35	100	42	30	60	81	106	70	392	46	15	1.6
8....	37	112	37	36	60	102	114	68	297	49	13	2.1
9....	32	110	36	36	65	94	92	66	221	49	12	1.7
10....	33	114	32	45	67	98	84	64	259	45	11	1.3
11....	37	106	29	43	64	121	47	62	312	45	10	1.1
12....	49	94	30	50	66	82	56	58	351	45	5.9	1.1
13....	65	82	31	43	75	88	49	53	286	44	5.9	1.1
14....	57	88	63	49	78	86	43	48	283	45	5.0	1.1
15....	47	90	60	45	80	63	92	46	351	47	4.0	1.1
16....	39	90	45	35	75	67	112	55	343	29	3.0	1.2
17....	30	98	45	44	75	67	102	71	243	12	2.5	1.3
18....	18	98	48	63	77	67	88	151	190	12	1.9	1.1
19....	11	98	48	56	81	82	92	16	160	10	2.1	1.0
20....	26	100	48	50	82	84	88	84	206	12	2.2	1.0
21....	28	98	50	45	79	88	94	60	297	12	2.1	1.0
22....	16	96	51	50	81	88	84	74	246	12	1.8	1.1
23....	14	94	52	55	81	86	38	187	172	11	1.6	1.1
24....	14	98	53	50	86	88	28	168	166	12	1.5	1.1
25....	9.2	100	60	50	82	88	26	168	184	12	1.7	1.1
26....	7.8	88	60	50	81	81	22	311	192	9.2	1.7	1.0
27....	7.8	121	53	50	65	84	28	165	156	11	1.5	0.9
28....	7.1	112	59	55	92	68	25	98	146	12	1.2	1.2
29....	5.7	104	60	45	....	68	33	117	142	14	1.3	1.8
30....	5.0	106	59	45	....	67	50	140	132	17	1.5	1.9
31....	5.0	....	60	35	....	60	....	162	....	18	1.6	....
Total	718.6	2731.2	1512	1404	1902	2485	1944	2955	8577	1135.2	180.0	38.2
Mean.	23.2	91.0	48.8	45.3	67.9	80.2	64.8	95.3	286	36.6	5.81	1.27
Max..	65	121	81	63	92	121	128	311	503	134	15	2.1
Min...	5.0	5.0	29	26	30	60	17	16	132	9.2	1.2	0.9
Acre-ft.	1430	5420	3000	2780	3770	4930	3860	5860	17010	2250	357	76

Total run-off for water year 1938-39=50,743 acre-feet.

Discharge of Clear Creek at Mouth, Near Derby, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.9	5.6	37	25	21	22	4.9	5.9	97	162	13	5.3
2....	1.6	3.7	41	26	20	38	7.8	4.9	154	227	12	5.3
3....	1.0	3.7	39	26	17	37	7.8	4.9	290	269	12	6.2
4....	0.9	3.9	37	22	18	26	6.9	4.6	400	190	10	6.2
5....	0.9	3.9	33	18	19	22	6.9	5.6	421	129	10	6.9
6....	0.9	3.1	26	13	19	31	11	6.9	351	96	11	7.5
7....	0.9	2.2	26	14	19	31	12	9.2	144	87	10	12
8....	0.9	3.5	26	15	18	32	8.9	41	99	57	10	6.9
9....	1.5	3.9	24	16	19	49	8.9	24	246	26	9.6	18
10....	1.5	3.3	20	17	20	42	10	17	212	16	8.6	87
11....	2.1	3.5	16	15	19	32	7.8	20	164	13	8.2	19
12....	2.9	3.1	14	13	17	30	12	21	230	53	6.9	8.9
13....	2.9	2.1	14	12	18	28	12	31	246	54	4.9	9.2
14....	3.3	1.9	15	13	19	26	8.6	22	312	18	3.5	27
15....	2.9	2.1	15	15	19	24	6.5	15	355	16	2.5	38
16....	3.1	2.5	16	16	18	22	10	19	272	27	2.2	11
17....	2.3	3.1	16	12	17	22	20	69	297	29	2.2	7.5
18....	2.1	3.7	16	8	16	24	9.6	92	272	94	2.1	7.2
19....	1.9	2.7	16	10	16	23	7.5	46	259	121	1.9	8.2
20....	1.9	2.2	16	9.2	17	21	7.2	24	320	72	1.8	56
21....	2.7	2.2	20	8.8	18	18	6.9	81	327	54	1.7	218
22....	2.2	1.9	20	9.8	19	16	6.9	70	324	38	2.3	106
23....	2.1	2.3	20	9.0	20	15	6.5	58	294	22	3.7	102
24....	2.1	2.3	21	8.6	22	15	6.5	52	286	14	5.6	102
25....	2.3	2.5	22	8.4	26	9.6	6.9	48	203	30	6.9	129
26....	2.2	2.3	22	9.6	23	6.9	8.6	46	190	45	20	82
27....	2.3	2.3	29	11	18	6.9	10	48	138	50	9.2	74
28....	2.9	16	27	14	16	6.2	12	55	78	59	8.9	68
29....	6.9	40	29	16	15	4.6	11	72	106	37	7.5	68
30....	17	38	30	18	....	4.6	7.8	69	136	16	5.9	90
31....	12	....	31	20	....	4.1	....	53	....	18	5.9	....
Total	92.1	173.5	734	448.4	543	688.9	269.4	1135.0	7223	2139	220.0	1392.3
Mean.	2.97	5.78	23.7	14.5	18.7	22.2	8.98	36.6	241	69.0	7.10	46.4
Max..	17	40	41	26	26	49	20	92	421	269	20	218
Min...	0.9	1.9	14	8	15	4.1	4.9	4.6	78	13	1.7	5.3
Acre-ft.	183	344	1460	889	1080	1370	534	2250	14330	4240	436	2760

Total run-off for water year 1939-40=29,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Boulder Creek Near Eldorado Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	50	22	18	13	9	9	42	212	362	92	31	13
2....	45	24	7	15	7	9	42	222	252	77	30	11
3....	52	21	4	15	6	9	47	235	220	70	27	6.6
4....	40	18	4	14	6	8	42	224	281	68	26	5.4
5....	40	26	5	13	6	8	62	258	292	67	22	5.6
6....	41	16	5	13	7	7	42	261	188	54	22	6.8
7....	48	13	5	12	8	7	48	231	201	52	28	7.0
8....	50	27	6	12	10	9	54	200	206	58	25	10
9....	33	31	11	13	9	9	62	223	203	56	18	8.5
10....	33	28	14	13	8	10	64	226	184	55	18	5.2
11....	33	21	14	13	7	13	55	208	182	55	22	5.8
12....	33	24	13	14	7	12	52	181	161	53	15	6.2
13....	27	8	13	13	8	12	71	170	161	51	13	5.8
14....	23	14	14	12	9	13	78	205	161	46	13	10
15....	18	20	16	11	11	12	81	226	171	40	12	6.2
16....	13	29	15	11	10	11	97	223	154	48	12	5.0
17....	15	21	15	12	10	11	98	183	134	42	13	5.2
18....	15	19	14	13	10	10	105	198	136	34	12	4.6
19....	32	21	15	14	9	13	97	264	116	31	12	4.2
20....	23	24	15	14	9	16	98	264	96	35	12	4.3
21....	30	23	14	15	9	22	101	264	93	45	13	4.8
22....	31	23	13	15	9	21	116	278	83	47	12	4.9
23....	24	23	13	15	10	22	125	252	88	31	12	4.5
24....	22	24	12	14	10	24	127	245	84	29	9.4	7.6
25....	22	26	13	13	10	26	119	226	80	28	12	10
26....	24	24	11	12	9	30	122	183	73	28	10	9.1
27....	22	22	10	11	9	31	134	155	82	35	11	5.4
28....	24	16	12	12	9	23	158	164	78	32	12	5.0
29....	14	17	14	13	....	25	175	218	76	26	11	8.2
30....	8.6	18	13	10	....	30	184	292	75	31	13	5.0
31....	12	....	13	10	....	36	....	299	....	36	12	....
Total	897.6	643	361	400	241	498	2698	6990	4673	1452	510.4	200.9
Mean.	29.0	21.4	11.6	12.9	8.61	16.1	89.9	225	156	46.8	16.5	6.70
Max..	52	31	18	15	11	36	184	299	362	92	31	13
Min...	8.6	8.0	4	10	6	7	42	155	73	26	9.4	4.2
Acre-ft.	1780	1280	716	793	478	988	5350	13860	9270	2880	1010	398

Total run-off for water year 1938-39=38,800 acre-feet.

Discharge of South Boulder Creek Near Eldorado Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.4	7.6	3.1	6.2	8.0	10	25	51	261	130	30	14
2....	6.0	6.0	3.6	6.5	7.8	10	32	52	266	130	29	13
3....	5.2	2.2	4.6	6.4	7.5	7.5	26	66	266	130	27	15
4....	5.4	2.1	4.3	6.0	7.0	7.4	24	83	247	139	25	34
5....	6.2	2.0	3.9	4.9	6.3	8.4	26	96	257	124	21	22
6....	5.6	2.2	3.6	3.6	7.0	8.8	27	90	243	130	25	19
7....	6.6	3.8	3.2	4.2	7.7	7.2	24	107	195	97	25	18
8....	6.0	4.0	3.7	5.4	7.2	7.0	21	110	176	83	20	16
9....	8.8	3.2	4.1	6.2	6.5	7.6	20	91	158	79	21	20
10....	9.1	8.2	3.9	6.6	7.2	8.3	20	102	145	77	17	46
11....	7.0	15	3.7	7.0	6.0	8.7	21	119	162	73	18	31
12....	7.9	12	3.5	7.4	5.8	7.7	22	142	169	69	15	26
13....	6.8	5.6	1.9	7.2	6.4	7.3	22	155	176	62	15	25
14....	6.0	8.5	3.0	6.4	6.8	6.6	29	119	238	57	17	25
15....	6.8	14	3.8	7.0	6.1	7.6	31	127	257	55	17	24
16....	5.4	10	3.7	7.4	5.2	9.0	36	155	221	66	16	21
17....	6.2	8.2	3.5	6.8	4.6	10	30	187	229	74	16	19
18....	5.6	7.3	3.6	6.4	5.1	9.0	30	173	208	109	14	17
19....	5.0	6.6	2.5	6.0	4.6	11	36	139	204	119	14	19
20....	5.2	8.8	2.1	7.2	4.2	9.2	44	139	191	90	14	32
21....	4.7	7.0	2.7	7.6	5.4	10	48	162	212	74	17	30
22....	4.9	11	3.9	7.8	4.7	11	47	145	187	65	25	33
23....	6.8	10	3.4	8.0	5.0	20	44	148	173	57	15	27
24....	5.6	8.8	3.0	6.9	5.2	22	52	136	155	52	17	30
25....	3.8	8.8	2.6	7.2	4.7	22	47	145	145	48	23	29
26....	3.0	4.7	2.8	7.5	4.6	23	67	173	139	44	25	31
27....	3.0	2.6	3.1	7.9	7.5	24	78	216	158	57	26	38
28....	1.2	3.1	3.3	6.9	9.8	24	70	195	195	71	25	30
29....	4.6	3.7	3.9	7.7	11	20	52	229	191	48	24	42
30....	3.3	3.4	5.0	8.6	....	18	46	238	176	41	25	45
31....	8.8	....	6.6	9.4	....	36	....	257	....	38	22	....
Total	175.9	200.4	109.6	210.3	184.9	398.3	1097	4347	6000	2488	640	791
Mean.	5.67	6.68	3.54	6.78	6.38	12.8	36.6	140	200	80.3	20.6	26.4
Max..	9.1	15	6.6	9.4	11	36	78	257	266	139	30	46
Min...	1.2	2.0	1.9	3.6	4.2	6.6	20	51	139	38	14	13
Acre-ft.	349	397	217	417	367	790	2180	8620	11900	4930	1270	1570

Total run-off for water year 1939-40=33,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Boulder Creek at Nederland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	21	12	8.3	6.4	5.0	4.3	12	132	288	94	43	16
2....	22	12	8.3	6.2	4.6	4.3	12	165	226	96	41	14
3....	24	9.2	9.4	6.0	4.0	4.3	16	163	208	94	36	12
4....	22	13	8.5	5.8	4.0	4.3	20	145	224	90	32	12
5....	21	13	8.5	6.0	4.6	4.3	23	174	249	85	30	12
6....	21	12	8.5	6.2	4.5	4.3	21	156	230	82	29	13
7....	25	12	8.3	6.2	4.3	4.5	19	113	191	81	32	16
8....	26	14	8.7	6.2	3.6	4.6	18	104	159	84	31	18
9....	24	14	9.0	6.2	2.8	5.0	18	120	156	84	27	14
10....	23	13	9.2	6.2	2.5	5.5	17	134	156	84	24	13
11....	21	13	9.4	6.2	*2.4	5.2	16	112	148	79	23	14
12....	20	12	9.6	6.2	*3.6	5.0	18	101	161	76	22	13
13....	18	11	9.6	6.0	*4.3	5.7	20	109	179	75	22	14
14....	18	12	9.0	6.0	*4.3	5.5	22	115	195	70	21	16
15....	28	11	8.7	5.8	*4.3	5.7	20	142	204	68	20	13
16....	28	11	8.5	5.8	*4.3	4.6	19	145	181	63	19	12
17....	27	11	8.5	5.8	*4.3	4.5	20	138	168	59	19	11
18....	26	11	8.3	5.8	*4.3	5.2	21	172	142	57	17	11
19....	27	11	7.5	5.5	*4.3	6.4	19	211	115	53	17	10
20....	25	11	7.9	5.5	*3.6	7.9	19	216	102	49	18	9.4
21....	25	10	7.9	5.8	*2.8	9.6	24	214	98	48	18	9.6
22....	24	9.6	7.9	6.2	*3.6	12	35	232	85	44	16	9.4
23....	19	9.4	7.7	6.2	*4.3	12	46	249	94	42	15	9.8
24....	19	7.0	7.9	6.0	*4.3	12	44	232	106	40	16	13
25....	15	8.5	7.5	5.8	*4.3	14	41	183	110	39	16	11
26....	14	8.3	7.5	5.5	*4.3	16	46	148	107	43	16	11
27....	14	8.3	7.3	5.3	*4.3	15	58	138	105	40	16	10
28....	13	8.1	7.1	5.5	*3.6	13	81	159	109	41	18	9.6
29....	11	7.9	7.0	5.7	....	12	85	218	107	43	17	13
30....	13	8.1	6.8	5.3	....	12	102	253	101	43	18	10
31....	12	....	6.1	5.2	....	11	....	272	....	43	17	....
Total	646	323.4	254.4	182.5	111.1	239.7	932	5165	4704	1989	706	369.8
Mean.	20.8	10.8	8.21	5.89	3.97	7.73	31.1	167	157	64.2	22.8	12.3
Max..	28	14	9.6	6.4	5.0	16	102	272	288	96	43	18
Min...	11	7.0	6.1	5.2	2.4	4.3	12	101	85	39	15	9.4
Acre-ft.	1280	641	505	362	220	475	1850	10240	9330	3950	1400	733

Total run-off for water year 1938-39=30,986 acre-feet.

*Estimated.

Discharge of Middle Boulder Creek at Nederland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.6	10	5.2	2.8	5.3	4.8	12	36	259	131	43	28
2....	9	11	6	3.1	5	5.2	12	46	270	183	39	26
3....	8.7	9.6	5.2	3.4	4.8	5	10	58	249	158	36	32
4....	9.6	9.6	5	3.6	4.2	4.2	9.2	70	232	131	35	38
5....	10	8.7	5.2	3.8	4.5	4.3	9	78	230	123	33	30
6....	12	9.6	5	3.8	4.8	4	10	85	209	132	32	27
7....	12	8.1	5	4	4.8	4.6	9.6	91	165	117	32	25
8....	13	8.3	5.5	4.8	5.3	4.6	9.2	82	147	106	32	23
9....	14	7.9	4.8	4	5.5	4.3	9.4	80	130	98	30	27
10....	12	6.6	5.3	3.8	5.5	4.3	9.2	105	130	95	27	34
11....	12	8.1	6	4.5	5.5	4.3	6.8	132	148	90	29	28
12....	12	7.9	4	4.3	5.3	4.6	10	141	156	86	26	24
13....	12	8.1	4.1	4.2	5.5	5.8	10	144	161	82	24	24
14....	11	18	4.2	8.1	5.7	5.7	14	115	208	74	24	26
15....	11	20	4.3	6.6	5.2	4.8	19	116	216	70	22	22
16....	11	20	4.5	4.8	5	5	19	128	202	77	23	21
17....	10	21	4.2	5.5	4.8	5.2	15	138	197	90	23	20
18....	9.6	19	3.7	5.8	4.8	6	15	123	177	109	22	20
19....	9.6	17	4.6	5.7	4.2	6.8	22	111	179	107	21	23
20....	8.5	18	3.4	5.7	4.6	5	32	104	201	89	22	29
21....	8.5	17	3.1	5.7	4.3	5.7	37	102	211	86	24	25
22....	9.2	14	3	5.7	4.3	6.6	35	88	197	76	29	31
23....	9	9.4	2.7	5.7	4.3	6.8	34	86	189	68	23	29
24....	8.5	7.3	2.8	5.7	4.2	7.7	39	86	170	63	24	31
25....	8.3	5.8	2.4	5.2	4.5	7.9	41	95	156	59	41	31
26....	8.5	6	3.8	5.5	4.2	8.5	45	117	150	57	45	37
27....	6.6	7.3	7.1	6.4	4	9.4	54	153	141	61	51	35
28....	7.9	6.2	3.7	5.8	4	10	48	156	148	61	43	32
29....	9.4	5.7	6.8	5.8	5.3	9.2	43	177	141	55	37	35
30....	8.7	5.2	2.3	5.7	....	8.3	35	195	128	51	32	35
31....	11	....	2.7	5.3	....	9.2	....	228	....	47	30	....
Total	312.2	330.4	135.6	154.8	139.4	187.8	673.4	3466	5497	2832	954	848
Mean.	10.1	11.0	4.37	4.99	4.81	6.06	22.4	112	183	91.4	30.8	28.3
Max..	14	21	7.1	8.1	5.7	10	54	228	270	183	51	38
Min...	6.6	5.2	2.3	2.8	4.0	4	6.8	36	128	47	21	20
Acre-ft.	619	655	269	307	276	372	1340	6870	10900	5620	1890	1680

Total run-off for water year 1939-40=30,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek Near Orodell, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	67	50	50	13	40	37	50	117	370	153	74	36
2....	66	60	31	32	36	45	23	121	370	145	76	37
3....	70	49	17	42	43	51	27	121	345	135	78	31
4....	70	42	17	42	12	16	34	119	283	128	72	30
5....	67	31	45	51	12	18	56	125	278	121	69	28
6....	69	17	57	46	36	42	59	125	292	123	66	28
7....	73	55	52	12	37	38	43	108	244	121	69	31
8....	76	55	45	26	38	57	35	114	223	121	70	42
9....	67	46	38	31	35	46	33	121	204	117	66	40
10....	63	52	16	48	29	63	56	132	204	117	60	33
11....	60	34	17	44	9.2	55	56	150	192	123	56	31
12....	60	28	45	48	15	40	41	162	177	125	50	35
13....	57	20	48	41	37	48	51	153	180	128	45	36
14....	59	50	51	35	36	60	67	174	214	125	43	36
15....	60	63	56	12	35	41	56	183	239	125	38	34
16....	57	54	43	40	37	46	64	177	231	121	38	28
17....	59	57	16	43	49	44	52	177	256	117	40	29
18....	57	48	26	28	15	51	50	189	223	110	34	28
19....	60	20	46	28	17	48	74	227	198	102	29	23
20....	52	17	51	33	25	60	57	231	165	94	30	20
21....	51	55	44	8.6	43	60	59	239	150	84	29	20
22....	27	45	42	12	36	70	79	252	142	85	28	18
23....	23	42	49	40	50	66	85	265	135	84	28	16
24....	42	28	13	44	42	66	100	296	140	80	29	16
25....	52	43	10	45	14	54	104	311	148	78	36	15
26....	51	26	20	38	15	60	94	244	165	80	35	14
27....	55	25	56	42	29	62	102	198	171	89	34	13
28....	37	46	46	13	44	59	110	214	168	91	35	13
29....	22	51	45	12	....	48	119	261	156	85	37	15
30....	21	45	42	33	....	116	96	316	165	82	36	12
31....	43	....	30	40	....	64	....	345	....	78	36	....
Total	1693	1254	1164	1022.6	866.2	1631	1932	5967	6428	3367	1466	788
Mean.	54.6	41.8	37.5	33.0	30.9	52.6	64.4	192	214	109	47.3	26.3
Max..	76	63	57	51	50	116	119	345	370	153	78	42
Min..	21	17	10	8.6	9.2	16	23	108	135	78	28	12
Acre-ft.	3360	2490	2310	2030	1720	3240	3830	11840	12750	6680	2910	1560

Total run-off for water year 1938-39=54,720 acre-feet.

Discharge of Boulder Creek Near Orodell, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.2	28	15	12	16	12	34	60	345	210	82	50
2....	18	18	13	19	16	10	21	56	390	274	73	56
3....	19	6.8	14	15	11	12	23	66	413	274	70	49
4....	13	6.2	16	13	8	15	40	67	380	201	67	64
5....	15	13	17	7	14	13	38	64	340	218	57	59
6....	15	16	18	24	13	12	21	79	345	244	51	89
7....	13	18	18	6	17	14	21	94	306	204	56	93
8....	13	23	23	10	16	12	28	94	274	201	60	73
9....	17	20	13	11	10	12	26	104	218	186	57	62
10....	20	12	12	10	16	13	35	110	201	174	51	51
11....	18	8.6	16	9	7	17	15	130	204	162	57	33
12....	16	18	20	11	11	13	14	150	235	156	51	27
13....	15	20	21	6	16	15	15	159	207	153	52	26
14....	14	26	24	9	14	16	20	165	218	138	46	25
15....	9.2	12	16	13	14	14	21	156	270	130	42	19
16....	14	9.2	13	15	8	15	26	142	278	132	35	18
17....	16	6.2	16	16	9	15	23	159	274	135	34	21
18....	12	8.6	25	15	4	15	21	177	270	135	35	22
19....	18	3.2	20	12	11	18	34	159	283	150	38	18
20....	9.2	19	24	12	10	15	46	145	306	156	38	28
21....	6.8	15	27	8	12	23	56	153	320	150	46	37
22....	5.0	15	19	13	11	35	67	130	340	145	40	20
23....	8.6	12	20	14	12	22	54	128	301	148	37	30
24....	5.6	12	10	13	13	18	67	125	292	132	38	56
25....	4.3	9.2	10	8	5.6	34	72	114	274	119	42	36
26....	6.2	7.4	11	23	9.8	33	63	138	256	108	38	28
27....	5.6	8.6	13	21	11	45	78	180	248	106	43	19
28....	6.8	18	12	9	14	33	78	218	231	112	62	15
29....	9.2	20	9	12	15	28	72	231	252	104	74	23
30....	12	19	17	20	....	20	64	252	218	104	60	29
31....	20	....	7	18	....	18	....	296	....	94	56	....
Total	383.7	428	509	404	344.4	587	1193	4301	8489	4955	1588	1176
Mean.	12.4	14.3	16.4	13.0	11.9	18.9	39.8	139	283	160	51.2	39.2
Max..	20	28	27	24	17	45	78	296	413	274	82	93
Min...	4.3	3.2	7	6	4	10	14	56	201	94	34	15
Acre-ft.	761	849	1010	801	683	1160	2370	8530	16840	9830	3150	2330

Total run-off for water year 1939-40=48,310 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek at Mouth Near Longmont, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	105	63	106	....	....	....	90	303	34	5.0	1.7	1.8
2....	105	66	106	....	....	....	94	326	62	6.0	1.7	1.7
3....	113	75	99	....	....	....	98	290	48	4.4	0.9	0.8
4....	108	70	92	....	....	....	103	193	38	5.0	0.7	0.7
5....	67	74	88	....	....	....	103	124	36	4.4	1.3	0.7
6....	70	84	99	....	....	....	108	102	17	2.4	1.1	1.1
7....	72	74	102	....	....	....	121	89	15	3.3	1.7	1.1
8....	69	106	100	....	....	....	117	72	18	6.0	2.2	1.5
9....	81	113	95	....	....	....	105	80	14	6.0	2.2	1.8
10....	82	86	86	....	....	....	102	63	17	6.0	1.8	1.5
11....	90	88	80	....	....	....	111	54	18	1.8	1.8	0.8
12....	77	74	64	....	....	....	108	54	15	1.5	2.2	0.8
13....	73	66	64	....	....	....	103	64	14	1.5	1.8	0.9
14....	69	62	79	....	....	....	102	63	5.0	1.5	1.7	0.8
15....	72	85	105	....	....	....	119	51	1.1	2.0	1.7	1.7
16....	65	103	104	....	....	....	124	31	1.0	1.8	1.5	1.7
17....	67	92	100	....	*105	....	129	16	0.8	2.2	1.1	1.7
18....	81	99	99	....	....	....	144	13	2.0	2.2	1.1	1.7
19....	88	93	98	....	....	....	211	9.5	4.2	1.5	1.3	1.5
20....	90	77	96	....	....	....	226	10	3.6	1.3	1.5	1.5
21....	82	66	95	....	....	....	208	20	3.9	2.0	1.3	1.3
22....	80	88	94	....	....	....	220	19	3.6	2.8	1.3	1.3
23....	79	100	93	*53	....	....	277	14	1.5	2.0	1.3	1.7
24....	75	85	93	....	....	....	316	17	2.6	2.0	1.1	1.5
25....	75	82	94	....	....	....	269	25	12	1.5	1.1	1.3
26....	75	80	98	....	....	....	239	31	6.6	1.3	1.3	0.9
27....	76	86	100	....	....	....	236	7.7	3.6	1.5	1.3	1.1
28....	77	92	102	....	....	....	261	10	3.9	1.3	1.5	1.3
29....	72	95	98	....	....	....	294	25	4.7	1.7	1.7	1.7
30....	64	109	90	....	....	....	298	29	5.0	1.3	1.8	0.4
31....	64	....	88	....	....	....	....	31	....	1.1	1.8	....
Total	2463	2533	2907	2046	2016	2790	5026	2236.2	411.1	84.3	46.5	38.3
Mean.	79.5	84.4	93.8	66	72	90	168	72.1	13.7	2.72	1.50	1.28
Max..	113	113	106	....	....	....	316	326	62	6.0	2.2	1.8
Min...	64	62	64	....	....	....	90	7.7	0.8	1.1	0.7	0.4
Acre-ft.	4890	5020	5770	4060	4000	5530	9990	4440	815	167	92	76

Total run-off for water year 1938-39=44,850 acre-feet.

*Discharge measurement.

Discharge of Boulder Creek at Mouth Near Longmont, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.3	2.6	1.7	1.2	6.0	6.8	0.8	41	0.2	4.2	1.7	1.8
2....	0.9	2.6	1.7	1.2	6.0	6.6	0.9	22	0.5	6.0	1.1	0.9
3....	0.7	3.3	1.5	1.2	6.2	6.5	0.9	8.6	20	46	2.2	1.3
4....	0.9	3.3	1.5	1.1	6.2	6.6	0.7	4.4	8.6	5.8	1.5	2.0
5....	1.5	3.3	1.5	1.1	6.4	6.6	0.8	0.7	6.3	2.8	0.8	2.0
6....	0.8	2.8	1.5	1.0	6.2	6.8	1.3	0.5	0.8	2.4	0.9	2.0
7....	0.7	1.8	1.3	0.6	6.0	6.9	1.3	0.8	37	2.2	2.0	4.4
8....	0.6	1.1	1.5	0.6	6.0	7.4	0.8	2.4	2.8	2.2	1.5	3.6
9....	0.8	1.3	2.0	0.7	6.3	7.4	0.8	0.8	3.3	2.2	0.9	3.1
10....	0.8	3.1	2.0	1.0	7.0	7.1	1.5	0.2	2.0	2.6	1.1	6.8
11....	0.8	4.2	1.7	1.2	6.4	6.8	3.3	0.4	2.8	2.4	0.8	3.6
12....	0.5	4.2	1.7	1.2	6.2	5.8	6.0	0.8	1.5	2.2	0.8	1.8
13....	0.4	3.3	2.0	1.1	6.8	6.3	5.2	4.2	2.8	2.4	1.3	1.7
14....	0.6	3.6	1.8	1.0	6.5	5.0	1.1	3.3	1.7	2.2	1.1	1.5
15....	0.7	4.2	1.5	1.3	6.3	6.3	0.9	0.4	2.2	2.6	1.3	1.8
16....	1.3	3.3	1.3	1.6	6.1	6.0	1.5	0.4	10	3.9	1.1	1.5
17....	0.8	2.4	0.8	2.0	5.8	5.5	4.4	1.7	17	3.3	0.9	1.5
18....	1.1	2.6	0.9	1.9	6.0	5.2	2.0	17	3.1	1.8	0.7	1.5
19....	0.9	2.0	0.6	1.8	6.4	5.0	1.3	1.3	2.6	2.6	0.7	1.5
20....	0.6	2.0	0.6	1.5	6.6	5.2	1.3	1.3	3.1	1.8	1.3	2.2
21....	0.9	2.0	0.5	1.3	6.6	7.7	0.8	12	12	2.2	1.1	2.8
22....	1.8	1.8	0.4	1.2	6.5	7.9	2.0	3.6	20	2.2	0.9	5.2
23....	2.0	1.7	0.5	0.6	6.5	8.2	7.4	1.5	9.3	2.0	1.5	3.3
24....	1.8	1.7	0.5	15	6.6	7.9	5.5	3.6	8.2	1.5	1.3	3.6
25....	1.7	2.4	0.5	17	6.6	7.1	8.6	3.3	5.0	0.9	1.3	16
26....	2.0	1.5	0.4	15	6.8	6.6	47	1.7	3.9	1.5	1.3	9.3
27....	2.0	1.8	0.3	6	6.8	7.4	46	1.8	5.0	1.8	2.2	7.7
28....	2.6	2.2	0.6	4	6.8	8.6	49	3.1	4.4	1.8	2.8	8.6
29....	2.6	2.2	0.8	5	7.0	7.9	46	11	4.4	1.1	2.8	15
30....	2.6	1.5	1.0	5.5	....	7.9	47	4.4	2.8	1.1	4.2	42
31....	2.8	....	1.4	6.2	....	4.4	....	0.3	....	0.8	2.8	....
Total	39.5	75.8	36.0	101.1	185.6	207.4	296.1	158.5	203.3	118.5	45.9	160.0
Mean.	1.27	2.53	1.16	3.26	6.40	6.69	9.87	5.11	6.78	3.82	1.48	5.33
Max..	2.8	4.2	2.0	17	7.0	8.6	49	41	37	46	4.2	42
Min...	0.4	1.1	0.3	0.6	5.8	4.4	0.7	0.2	0.2	0.8	0.7	0.9
Acre-ft.	78	150	71	201	368	411	587	314	403	235	91	317

Total run-off for water year 1939-40=3,230 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North St. Vrain Creek at Longmont Dam Near Lyons, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	47	29	17	16	12	11	30	142	323	133	96	41
2....	47	30	17	16	10	11	28	170	272	129	92	40
3....	45	29	16	15	9.9	11	40	186	244	129	84	25
4....	44	25	16	15	9.9	11	42	160	272	127	65	19
5....	44	30	17	13	11	11	52	158	315	119	56	17
6....	48	19	16	15	10	11	43	175	311	119	54	19
7....	52	14	16	14	12	10	42	151	266	119	65	24
8....	51	26	17	14	13	11	45	140	235	119	71	30
9....	45	27	18	15	13	11	52	131	206	113	58	50
10....	44	25	17	14	12	12	47	153	192	110	47	47
11....	41	22	16	14	11	15	42	146	186	111	44	46
12....	40	15	15	15	11	13	45	144	186	108	41	51
13....	37	6.4	16	14	12	14	59	142	212	103	44	46
14....	37	14	18	13	12	15	64	148	228	117	44	48
15....	37	24	20	13	12	11	64	162	235	115	41	43
16....	34	25	17	14	10	12	72	178	203	113	42	39
17....	34	24	16	14	11	11	62	168	203	106	55	30
18....	34	30	16	13	12	13	60	206	186	80	60	23
19....	37	19	16	13	12	16	63	238	158	76	59	19
20....	35	19	16	13	11	20	64	248	142	81	60	19
21....	35	16	16	14	11	23	65	231	155	82	56	18
22....	33	15	16	14	11	29	77	238	144	84	50	16
23....	30	13	14	13	11	31	92	248	142	81	47	19
24....	30	16	15	13	12	32	84	255	170	77	34	30
25....	30	17	15	13	11	32	81	215	170	94	27	27
26....	30	16	15	13	11	36	80	186	148	98	25	30
27....	30	20	14	13	10	30	81	172	144	106	29	30
28....	30	18	15	13	11	21	98	186	146	99	30	28
29....	30	18	15	13	....	29	113	235	151	99	47	32
30....	30	18	14	12	....	29	125	288	148	93	54	29
31....	29	....	15	12	....	25	....	296	....	110	47	....
Total	1170	609.4	497	426	314.8	567	1912	5896	6093	3250	1624	935
Mean.	37.7	20.3	16.0	13.7	11.2	18.3	63.7	190	203	105	52.4	31.2
Max..	52	30	20	16	13	36	125	296	323	133	96	51
Min...	29	6.4	14	12	9.9	10	28	131	142	76	25	16
Acre-ft.	2320	1210	986	845	624	1120	3790	11690	12090	6450	3220	1850

Total run-off for water year 1938-39—46,195 acre-feet.

Discharge of North St. Vrain Creek at Longmont Dam Near Lyons, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	23	16	8.6	11	9.7	12	16	31	272	175	62	38
2....	20	16	9.3	11	9.5	11	18	32	266	197	55	33
3....	20	14	8.2	12	9.7	11	13	47	258	183	52	32
4....	23	15	7.7	12	9.7	10	12	65	231	165	53	36
5....	25	14	7.5	12	9.0	10	12	76	255	162	48	30
6....	29	14	8.2	11	9.3	11	14	87	244	175	50	28
7....	24	13	6.9	10	10	10	14	94	183	142	45	25
8....	23	13	7.7	10	9.5	10	11	94	168	135	43	24
9....	31	13	7.5	11	8.6	11	14	81	144	119	42	37
10....	27	11	7.5	11	9.7	11	14	101	131	111	38	54
11....	27	11	8.4	10	9.7	11	10	133	144	111	45	43
12....	23	11	6.2	11	9.0	9.5	10	158	162	111	39	37
13....	23	12	4.3	11	8.8	8.6	15	153	162	108	35	37
14....	21	12	8.8	9.9	9.9	12	16	115	192	98	33	41
15....	20	9.0	7.3	9.9	9.7	12	20	110	228	93	32	35
16....	19	7.5	8.6	10	9.3	12	26	125	235	92	40	30
17....	19	7.5	8.4	10	9.5	12	21	144	215	96	46	30
18....	19	6.7	8.6	9.5	9.7	11	20	137	189	228	46	32
19....	18	4.5	3.3	9.5	9.7	11	28	115	244	172	44	38
20....	17	5.6	5.1	9.5	9.5	12	37	119	255	142	45	48
21....	16	8.8	10	9.3	9.3	12	42	142	266	125	46	48
22....	14	9.9	8.2	9.3	9.9	14	36	125	258	127	50	55
23....	12	11	6.7	9.0	10	16	31	115	235	115	38	51
24....	13	8.6	6.6	8.8	9.9	16	36	119	209	106	35	58
25....	13	4.5	6.7	9.0	10	17	37	127	186	98	45	59
26....	13	3.4	7.9	9.0	10	18	48	148	175	92	52	64
27....	13	4.2	7.7	9.5	11	17	55	186	168	88	64	69
28....	10	11	8.8	9.5	13	17	50	180	178	87	58	58
29....	16	11	10	9.7	14	14	40	206	172	82	53	63
30....	12	8.4	9.3	9.9	....	12	36	206	168	81	45	65
31....	17	....	11	9.7	....	14	....	241	....	71	42	....
Total	600	306.6	241.0	314.0	286.6	385.1	752	3812	6193	3887	1421	1298
Mean.	19.4	10.2	7.77	10.1	9.88	12.4	25.1	123	206	125	45.8	43.3
Max..	31	16	11	12	14	18	55	241	272	228	64	69
Min...	10	3.4	3.3	8.8	8.6	8.6	10	31	131	71	32	24
Acre-ft.	1190	608	478	623	568	764	1490	7560	12280	7710	2820	2570

Total run-off for water year 1939-40=38,660 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek at Lyons, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1....	50	30	22	17	11	13	48	216	473	185	155	64
2....	49	33	9.5	17	9.5	13	45	260	417	178	122	58
3....	50	30	4.3	18	10	14	58	316	380	175	110	43
4....	45	30	5.8	16	8.5	14	45	246	422	181	94	32
5....	39	37	10	16	8.5	11	64	237	444	168	71	30
6....	44	25	6.1	16	10	12	52	260	439	161	67	29
7....	60	17	5.5	15	12	13	54	195	428	146	79	33
8....	55	29	9.5	15	13	14	54	152	385	142	110	42
9....	49	42	16	16	12	15	62	161	296	139	92	50
10....	52	37	19	15	11	17	62	212	268	127	79	56
11....	55	32	18	14	12	23	58	199	264	116	74	60
12....	55	24	15	16	12	18	61	203	264	136	69	67
13....	52	13	18	17	13	17	76	185	296	139	66	66
14....	50	14	22	13	14	21	96	199	355	139	54	67
15....	49	29	23	13	16	16	98	224	380	133	49	60
16....	48	33	22	14	15	17	113	255	335	133	54	52
17....	48	32	20	14	14	16	100	233	335	124	56	43
18....	48	23	20	16	14	15	98	278	296	108	64	34
19....	50	26	20	15	13	20	105	340	233	113	74	32
20....	48	24	20	15	13	24	105	370	195	119	78	30
21....	48	23	20	15	14	30	108	365	171	116	72	26
22....	47	17	18	14	14	26	130	385	149	116	67	26
23....	43	18	17	14	14	32	161	406	158	110	55	26
24....	43	24	17	14	14	34	139	433	178	110	47	36
25....	41	23	17	14	14	34	133	391	188	100	37	37
26....	36	22	15	13	13	41	127	325	192	94	33	38
27....	35	23	13	14	13	42	130	301	192	116	37	37
28....	33	22	16	15	14	25	152	325	199	102	36	34
29....	34	22	17	14	....	28	178	396	216	96	43	38
30....	34	22	17	12	....	42	188	433	212	127	72	39
31....	34	....	17	13	....	45	....	462	....	168	79	....
Total	1424	776	489.7	460	351.5	702	2900	8963	8760	4117	2195	1285
Mean.	45.9	25.9	15.8	14.8	12.6	22.6	96.7	289	292	133	70.8	42.8
Max..	60	42	23	18	16	45	188	462	473	185	155	67
Min...	33	13	4.3	12	8.5	11	45	152	149	94	33	26
Acre-ft.	2820	1540	971	912	697	1390	5750	17780	17380	8170	4350	2550

Total run-off for water year 1938-39=64,310 acre-feet.

Discharge of St. Vrain Creek at Lyons, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	17	6.7	9.5	10	13	17	44	406	246	71	58
2....	28	17	8.5	10	10	6.7	19	36	412	325	66	48
3....	26	7.5	10	10	9.5	2.6	19	47	456	296	60	47
4....	27	3.6	9.0	10	9.5	2.6	16	64	417	250	61	54
5....	28	3.8	7.0	8.0	8.0	2.4	15	72	444	192	56	47
6....	29	3.6	6.7	5.2	8.0	2.6	18	81	401	229	54	44
7....	21	3.4	6.4	8.5	9.5	2.6	20	98	296	216	47	39
8....	25	3.4	5.8	9.0	9.5	2.4	18	105	250	208	44	36
9....	33	3.4	7.0	9.0	7.5	2.4	17	94	212	171	39	54
10....	32	2.6	6.7	10	8.5	2.4	18	110	188	158	54	62
11....	30	1.5	6.1	10	6.7	2.4	18	164	229	158	64	66
12....	27	1.8	5.8	10	5.5	2.2	12	224	268	152	60	58
13....	25	1.8	3.4	9.0	5.8	2.2	23	242	264	142	56	66
14....	23	2.6	4.3	8.5	6.4	2.2	23	171	311	124	55	61
15....	22	1.9	6.4	9.0	5.8	2.4	27	155	375	122	58	55
16....	19	1.5	5.8	9.5	4.9	2.8	36	175	385	110	61	48
17....	18	1.5	5.8	8.5	4.0	3.4	37	220	345	113	67	45
18....	18	2.6	6.4	7.5	4.9	3.0	33	229	287	306	61	47
19....	17	3.0	3.8	7.0	4.6	3.2	36	171	292	237	56	50
20....	17	2.0	3.0	8.5	3.4	7.5	44	175	325	188	49	74
21....	15	2.4	6.1	8.5	4.0	13	52	237	370	171	52	74
22....	14	4.6	7.0	9.0	3.8	14	49	195	422	171	56	81
23....	13	11.0	5.8	9.0	4.0	17	47	178	370	149	52	74
24....	12	9.0	4.9	7.5	5.2	19	47	188	335	133	43	81
25....	12	3.6	3.6	8.0	4.9	20	49	199	292	119	62	85
26....	11	2.8	3.8	8.5	4.6	20	61	250	273	124	71	83
27....	12	1.8	4.9	10	5.8	21	69	325	237	124	94	87
28....	12	3.4	5.8	8.5	9.5	21	61	296	255	122	87	89
29....	14	8.5	7.0	9.5	12	20	55	306	260	113	85	94
30....	11	7.0	9.5	11	....	15	47	306	246	96	72	89
31....	17	....	10	12	....	13	....	355	....	81	60	....
Total	642	139.6	193.0	278.2	195.8	264.0	1003	5512	9623	5346	1873	1896
Mean.	20.7	4.65	6.23	8.97	6.75	8.52	33.4	178	321	172	60.4	63.2
Max..	34	17	10	12	12	21	69	355	456	325	94	94
Min...	11	1.5	3	5.2	3.4	2.2	12	36	188	81	39	36
Acre-ft.	1270	277	383	552	388	524	1990	10930	19090	10600	3720	3760

Total run-off for water year 1939-40=53,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek at Mouth Near Platteville, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	346	139	188	185	160	210	198	505	248	162	181	76
2....	350	139	196	188	161	208	184	565	459	145	181	70
3....	350	156	179	192	163	207	164	488	360	149	164	65
4....	346	162	158	184	159	210	152	350	268	114	152	99
5....	200	162	147	186	154	214	156	205	257	116	98	105
6....	184	179	160	210	145	222	176	130	203	99	90	104
7....	174	222	164	193	142	232	225	123	139	85	109	96
8....	176	225	176	181	143	250	235	102	149	87	114	104
9....	198	191	174	198	147	262	205	104	132	86	105	104
10....	193	188	174	181	153	243	200	92	134	85	102	105
11....	208	172	160	186	161	353	203	90	160	85	98	110
12....	196	167	150	215	169	346	196	85	172	99	86	65
13....	181	143	145	215	161	238	205	119	141	109	84	54
14....	176	137	160	200	159	210	246	137	127	114	118	50
15....	176	154	196	201	160	193	326	127	118	125	112	41
16....	169	181	180	205	174	179	398	100	107	137	118	41
17....	164	188	190	203	215	181	371	86	94	136	119	46
18....	179	181	175	204	205	172	323	77	90	134	123	39
19....	193	174	170	205	198	167	346	62	86	134	121	34
20....	212	149	168	184	196	167	353	63	81	119	112	37
21....	193	132	165	196	195	169	329	81	90	109	98	37
22....	179	132	165	169	191	176	323	78	90	104	86	40
23....	172	124	161	162	191	188	387	63	86	112	85	41
24....	169	105	159	181	192	184	446	64	87	114	84	38
25....	162	130	157	203	194	184	418	102	141	110	82	42
26....	156	135	162	210	200	169	364	147	158	112	81	43
27....	162	148	168	208	205	208	346	121	128	107	80	40
28....	164	152	180	210	210	230	350	110	119	152	80	38
29....	158	154	195	181	....	205	364	136	128	164	80	42
30....	147	179	182	162	....	210	394	137	152	169	85	43
31....	143	....	180	164	....	262	....	174	....	172	80	....
Total	6176	4800	5284	5962	4903	6649	8583	4823	4704	3745	3308	1849
Mean.	199	160	170	192	175	214	286	156	157	121	107	61.6
Max..	350	225	196	215	215	353	446	565	459	172	181	110
Min...	143	105	145	162	142	167	152	62	81	85	80	34
Acre-ft.	12250	9520	10480	11830	9720	13190	17020	9570	9330	7430	6560	3670

Total run-off for water year 1938-39=120,570 acre-feet.

Discharge of St. Vrain Creek at Mouth Near Platteville, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	58	54	43	57	76	49	98	54	130	57	33
2....	49	52	59	43	56	87	50	84	48	176	60	29
3....	43	53	59	42	58	84	50	77	68	625	57	30
4....	35	60	54	42	60	74	48	60	78	501	56	33
5....	33	59	53	40	60	73	46	54	78	248	59	33
6....	32	57	49	39	61	84	47	48	65	169	58	39
7....	34	57	45	39	61	90	53	37	118	160	53	33
8....	35	56	42	39	60	78	53	31	123	160	50	33
9....	43	54	46	40	62	72	48	28	94	162	46	40
10....	44	55	46	41	66	70	45	28	92	176	47	85
11....	49	61	44	40	65	69	47	28	74	160	46	112
12....	42	61	44	40	64	67	57	25	68	156	44	86
13....	47	59	45	39	63	67	61	25	72	147	38	68
14....	54	59	43	38	65	64	55	28	68	121	34	72
15....	55	57	43	39	62	62	47	30	67	110	32	68
16....	54	57	46	41	68	63	48	28	64	85	33	65
17....	58	57	46	38	62	61	59	31	104	77	33	60
18....	55	60	41	35	64	59	60	87	90	65	30	55
19....	51	61	39	34	64	58	53	87	55	73	30	54
20....	48	57	38	36	64	56	47	58	44	87	30	57
21....	49	57	41	35	64	55	43	82	40	90	29	60
22....	48	58	40	35	64	57	39	162	61	92	29	68
23....	47	54	48	35	68	56	37	87	87	72	29	93
24....	47	52	45	34	73	55	47	74	96	60	26	87
25....	49	53	40	35	81	54	49	65	85	54	28	85
26....	45	54	42	50	81	53	72	65	82	52	43	109
27....	46	52	36	54	81	52	100	68	96	54	51	100
28....	48	56	37	56	82	54	102	90	86	61	43	93
29....	53	57	39	59	77	54	105	99	92	80	35	116
30....	55	55	42	60	....	58	98	110	94	64	32	174
31....	57	....	44	58	....	54	....	78	....	58	33	....
Total	1453	1698	1390	1299	1913	2016	1715	1952	2343	4325	1271	2070
Mean.	46.9	56.6	44.8	41.9	66.0	65.0	57.2	63.0	78.1	140	41.0	69.0
Max..	58	61	59	60	82	90	105	162	123	625	60	174
Min...	32	52	36	34	56	52	37	25	40	52	26	29
Acre-ft.	2880	3370	2760	2580	3790	4000	3400	3870	4650	8580	2520	4110

Total run-off for water year 1939-40=46,510 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Left Hand Creek at Mouth Near Longmont, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	20	5.9	8.7	....	....	....	6.0	63	29	18	6.7	1.0
2....	20	6.3	9.0	....	....	....	6.0	59	27	16	8.2	2.6
3....	21	6.3	8.5	....	....	....	5.8	58	22	17	5.2	2.6
4....	20	6.3	8.7	....	....	....	5.7	58	30	19	5.5	2.2
5....	19	7.9	8.2	....	....	....	5.4	55	28	12	5.5	1.2
6....	17	7.9	8.5	....	....	....	8.0	55	23	9.1	6.1	1.4
7....	18	6.6	8.2	....	....	....	15	54	30	11	6.7	3.2
8....	19	7.6	9.9	....	....	....	29	53	27	12	3.0	4.8
9....	17	7.9	10	....	....	....	28	53	23	11	4.5	5.2
10....	14	7.6	11	....	....	....	29	52	26	8.8	5.0	4.5
11....	11	7.4	11	....	....	....	29	50	19	7.3	3.5	4.5
12....	9.3	7.4	10	....	....	....	28	48	18	6.1	5.0	5.2
13....	8.2	6.6	11	....	....	....	30	49	16	5.8	3.8	5.2
14....	8.2	6.1	12	....	....	....	32	42	15	5.2	3.0	5.2
15....	9.0	7.4	16	....	....	....	39	32	10	7.9	3.2	3.8
16....	8.5	7.6	16	....	....	....	41	25	10	9.1	3.5	7.0
17....	8.2	7.1	15	....	*8.2	....	40	22	12	11	2.4	7.9
18....	7.6	5.9	14	....	....	....	41	22	13	10	2.4	4.8
19....	8.7	5.9	14	....	....	....	44	20	11	5.5	3.0	1.0
20....	7.6	5.9	14	*7.9	....	....	44	21	13	5.0	2.4	0.4
21....	6.6	5.4	14	....	....	....	45	17	14	7.0	2.6	0.5
22....	7.1	6.1	14	....	....	....	50	14	13	8.8	3.8	0.9
23....	6.6	6.8	13	....	....	....	55	11	8.8	11	2.6	1.8
24....	6.3	7.0	12	....	....	....	57	12	13	10	2.6	2.4
25....	6.1	8.0	11	....	....	....	53	15	16	10	1.8	2.8
26....	6.3	8.0	10	....	....	....	53	15	16	8.8	2.2	3.2
27....	6.1	7.5	9	....	....	....	55	13	17	4.8	2.0	1.2
28....	6.1	9.0	10	....	....	....	55	21	20	7.0	1.8	0.9
29....	6.3	8.6	11	....	....	....	56	23	22	7.9	1.6	1.8
30....	6.1	5.6	12	....	....	....	58	25	19	6.7	3.0	2.2
31....	5.9	....	12	....	....	....	....	27	....	5.5	1.0	....
Total	340.8	209.6	351.7	279	196	186	1042.9	1084	560.8	294.3	113.6	91.4
Mean.	11.0	6.99	11.3	9.0	7.0	6.0	34.8	35.0	18.7	9.49	3.66	3.05
Max..	21	9.0	16	....	....	....	58	63	30	19	8.2	7.9
Min...	5.9	5.4	8.2	....	....	....	5.4	11	8.8	4.8	1.0	0.4
Acre-ft.	676	416	698	553	389	369	2070	2150	1110	584	225	181

Total run-off for water year 1938-39=9,421 acre-feet.

*Discharge measurement.

Discharge of Lefthand Creek at Mouth at Longmont, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.1	2.8	3.1	....	....	3.2	1.8	3.1	5.6	11	2.8	3.3
2....	1.1	2.5	3.1	....	....	3.2	2.1	2.0	7.6	16	2.4	3.0
3....	1.1	2.5	3.1	....	....	3.2	2.2	2.8	7.9	22	2.5	3.3
4....	2.0	2.5	3.1	....	....	3.2	2.2	5.0	5.2	18	3.1	2.8
5....	2.4	2.3	2.8	....	....	3.1	2.2	5.6	5.4	18	3.5	2.1
6....	2.3	2.0	2.8	....	....	3.1	2.2	3.6	6.8	18	2.8	2.4
7....	2.2	2.1	3.0	....	....	3.1	2.3	2.1	7.9	19	2.8	3.0
8....	2.3	2.4	3.1	....	....	3.1	2.2	3.9	6.3	18	3.6	2.5
9....	2.5	2.2	3.3	....	....	3.1	2.1	2.3	7.4	15	3.6	3.1
10....	2.7	2.4	3.3	....	....	3.0	2.1	1.8	8.7	10	4.5	7.6
11....	2.8	2.4	3.1	....	....	2.8	2.5	2.1	7.1	7.1	4.3	8.2
12....	2.8	2.4	3.1	....	....	3.1	3.1	1.7	11	8.7	3.0	5.2
13....	3.0	2.5	3.5	....	....	3.3	3.0	1.3	9.6	12	2.4	3.1
14....	3.1	2.2	3.5	....	....	3.1	2.8	1.3	9.9	15	2.0	3.9
15....	2.5	2.2	3.5	....	....	2.7	2.8	1.1	11	14	1.8	4.3
16....	2.7	2.7	3.6	....	....	2.7	5.2	1.8	7.6	14	1.6	3.3
17....	3.0	2.7	3.3	....	....	2.4	4.8	3.6	6.1	16	1.6	3.1
18....	3.5	2.5	3.1	....	....	2.3	3.8	3.0	5.0	16	1.4	3.1
19....	3.5	2.8	3.9	....	....	2.2	3.6	1.1	3.9	14	1.5	3.1
20....	2.7	2.3	4.8	....	4.2	2.3	3.6	2.7	5.0	11	1.6	3.9
21....	2.5	2.2	3.5	....	....	2.1	2.8	11	7.1	7.4	1.3	9.0
22....	2.8	2.7	4.1	....	....	2.1	3.1	10	7.4	6.1	1.2	17
23....	3.5	2.3	3.8	....	....	2.4	3.8	7.9	7.1	3.6	2.0	10
24....	3.3	2.5	3.7	....	....	2.5	3.9	5.6	6.1	4.5	2.4	13
25....	4.3	2.8	3.6	2.1	....	2.0	4.1	4.8	4.3	4.3	2.1	14
26....	3.9	2.8	3.6	....	....	2.0	5.9	7.1	4.5	3.0	2.2	10
27....	4.1	2.7	3.5	....	....	2.1	6.8	6.3	6.8	5.4	1.6	8.7
28....	4.3	2.5	3.4	....	....	2.0	6.8	4.5	8.2	4.3	1.6	11
29....	3.9	3.1	3.4	....	....	2.0	5.2	3.0	7.6	4.1	2.1	15
30....	3.5	3.0	3.4	....	....	2.0	3.9	2.5	7.4	4.5	2.3	12
31....	2.8	....	3.4	....	....	2.0	....	3.0	....	3.1	2.7	....
Total	89.2	75.0	105.5	77.8	96.0	81.4	102.9	117.6	211.5	343.1	74.3	194.0
Mean.	2.88	2.50	3.40	2.51	3.31	2.63	3.43	3.79	7.05	11.1	2.40	6.47
Max..	4.3	3.1	4.8	....	....	3.3	6.8	11.0	11	22	4.5	17
Min...	1.1	2.0	2.8	....	....	2.0	1.8	1.1	3.9	3.0	1.2	2.1
Acre-ft.	177	149	209	154	190	161	204	233	420	681	147	385

Total run-off for water year 1939-40=3,110 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River Near Estes Park, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	86	39	....	....	....	....	38	208	583	238	164	61
2....	88	39	....	....	....	....	36	252	474	225	150	59
3....	86	33	....	....	....	....	41	269	414	231	136	47
4....	80	35	....	....	....	....	44	225	470	245	125	41
5....	71	31	....	*16	....	....	47	238	537	231	114	37
6....	70	24	....	....	....	....	45	272	532	231	109	37
7....	72	28	....	....	....	....	37	202	435	225	150	49
8....	73	38	....	....	....	....	37	179	371	218	147	63
9....	75	46	....	....	....	....	41	183	333	212	117	60
10....	71	44	....	....	....	....	41	222	312	202	98	57
11....	67	34	....	....	....	....	43	215	322	199	86	59
12....	63	30	....	....	....	....	43	205	322	189	82	61
13....	57	28	....	....	....	....	47	179	348	192	82	61
14....	59	32	....	....	....	....	45	208	378	183	75	61
15....	59	38	....	....	....	....	45	272	394	167	69	57
16....	59	42	....	....	*16	....	45	322	352	164	65	53
17....	57	44	....	....	....	....	41	276	340	147	63	49
18....	55	37	....	....	....	....	37	326	308	133	61	43
19....	55	40	....	....	....	....	45	406	245	125	61	39
20....	53	42	....	....	....	....	43	414	212	117	61	37
21....	51	36	....	....	....	....	45	398	202	114	57	35
22....	49	30	....	....	....	....	61	414	186	109	51	31
23....	45	26	....	*18	....	....	88	422	199	104	49	35
24....	45	27	....	....	....	....	86	410	218	101	49	55
25....	45	30	....	....	....	....	77	367	238	98	47	49
26....	45	28	....	....	....	....	77	304	238	106	49	47
27....	45	29	....	....	....	....	86	272	235	106	49	43
28....	43	30	....	....	....	....	120	308	238	104	51	39
29....	43	28	....	....	....	....	153	402	258	109	65	51
30....	43	32	....	....	....	....	170	514	255	117	67	45
31....	43	....	....	....	....	....	....	532	....	173	69	....
Total	1853	1020	806	527	420	744	1804	9416	9949	5115	2618	1461
Mean.	59.8	34	26	17	15	24	60.1	304	332	165	84.5	48.7
Max..	88	....	....	....	....	....	170	532	583	245	164	63
Min...	43	....	....	....	....	....	36	179	186	98	47	31
Acre-ft.	3680	2020	1600	1050	833	1480	3580	18680	19730	10150	5190	2900

Total run-off for water year 1938-39=70,893 acre-feet.

*Discharge measurement.

Discharge of Big Thompson River Near Estes Park, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	42	20	20	15	14	13	19	43	519	258	130	88
2....	39	20	20	16	13	12	20	45	528	359	120	77
3....	38	19	21	15	11	9	19	73	519	304	114	73
4....	39	18	21	13	12	10	18	109	456	265	104	82
5....	39	18	22	14	13	11	18	136	506	262	101	73
6....	39	19	19	13	12	12	18	147	452	258	95	65
7....	36	18	19	13	11	10	18	167	337	252	88	63
8....	36	17	20	12	11	13	17	164	315	235	86	63
9....	41	17	21	12	12	13	17	139	272	212	84	82
10....	35	17	21	11	11	12	17	167	231	202	77	112
11....	35	17	21	12	11	13	16	218	262	199	77	82
12....	32	15	18	13	11	9	18	286	319	186	75	79
13....	31	18	12	12	11	10	15	286	363	186	69	71
14....	31	17	15	11	11	12	17	208	439	183	69	71
15....	28	18	17	11	10	14	21	202	483	179	67	63
16....	27	20	19	11	10	15	31	283	444	186	65	57
17....	26	21	17	12	10	15	27	294	456	215	65	55
18....	26	22	13	13	10	14	28	235	398	374	59	57
19....	25	21	9	14	10	13	31	202	382	352	61	69
20....	19	22	6	11	10	14	42	218	422	269	63	75
21....	18	23	7	11	9	15	53	235	406	241	71	73
22....	18	23	8	11	9	16	57	183	386	258	84	86
23....	20	22	11	9	9	15	53	176	355	215	73	80
24....	18	21	9	10	10	15	55	189	333	192	82	75
25....	18	20	6	10	11	18	61	222	304	170	106	73
26....	18	18	8	11	12	20	69	272	304	164	144	75
27....	19	15	10	13	15	20	84	382	272	150	170	82
28....	18	21	11	11	16	21	86	352	286	156	147	71
29....	18	24	13	12	14	18	69	340	276	164	119	82
30....	20	21	14	13	....	15	55	390	255	166	106	104
31....	19	....	14	14	....	17	....	465	....	155	95	....
Total	868	582	462	379	329	434	1069	6828	11280	6967	2866	2258
Mean.	28.0	19.4	14.9	12.2	11.3	14.0	35.6	220	376	225	92.5	75.3
Max..	42	24	22	16	16	21	86	465	528	374	170	112
Min...	18	15	6	9	9	9	15	43	231	150	59	55
Acre-ft.	1720	1150	916	752	653	861	2120	13540	22370	13820	5680	4480

Total run-off for water year 1939-40=68,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River Below Power House Near Drake, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	156	68	50	31	20	20	52	228	720	256	158	76
2....	154	71	46	33	17	20	48	282	586	251	154	72
3....	154	71	41	32	15	20	56	315	470	248	142	67
4....	147	66	39	32	16	20	56	265	518	270	132	62
5....	145	74	43	29	15	19	66	265	598	259	121	59
6....	147	55	42	30	14	20	61	326	623	262	114	59
7....	149	42	38	30	16	20	61	279	507	256	144	64
8....	142	66	40	30	14	21	64	245	429	253	158	75
9....	138	80	41	29	13	22	63	231	372	245	132	81
10....	135	70	42	28	15	26	63	253	348	233	114	75
11....	130	62	37	28	14	26	60	256	348	226	105	68
12....	126	47	28	30	22	24	61	256	344	214	100	67
13....	121	28	28	28	16	26	69	228	376	208	97	69
14....	121	31	39	27	20	28	71	253	419	199	94	69
15....	118	57	48	24	22	26	74	295	475	186	88	67
16....	114	67	43	27	21	25	77	372	419	184	84	63
17....	114	75	43	21	20	23	65	322	400	174	83	60
18....	111	45	37	26	20	23	64	352	360	160	80	56
19....	114	57	36	21	19	26	72	444	288	149	80	53
20....	108	57	38	23	19	34	71	480	267	135	82	51
21....	104	52	37	22	18	39	70	465	243	132	76	48
22....	102	37	36	21	20	45	81	475	238	129	71	47
23....	92	31	35	24	18	47	102	507	230	123	68	45
24....	84	28	32	20	20	50	107	491	240	118	66	54
25....	80	41	31	23	20	52	102	444	242	116	66	57
26....	78	36	31	20	20	56	102	372	248	111	65	56
27....	72	46	30	21	22	55	102	322	251	100	65	55
28....	75	50	30	23	22	40	122	352	251	100	67	52
29....	72	46	31	20	....	39	162	449	267	100	76	53
30....	65	50	29	21	....	49	191	604	273	113	81	56
31....	71	....	31	21	....	49	....	635	....	158	87	....
Total	3539	1606	1152	795	508	990	2415	11063	11350	5668	3050	1836
Mean.	114	53.5	37.2	25.6	18.1	31.9	80.5	357	378	183	98.4	61.2
Max..	156	80	50	33	22	56	191	635	720	270	158	81
Min...	65	28	28	20	13	19	48	228	230	100	65	45
Acre-ft.	7020	3190	2280	1580	1010	1960	4790	21940	22510	11240	6050	3640

Total run-off for water year 1938-39=87,210 acre-feet.

Discharge of Big Thompson River Below Power House Near Drake, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	30	20	17	18	20	25	56	598	276	151	94
2....	44	31	20	20	18	18	26	56	629	409	135	88
3....	46	29	22	18	14	16	26	68	648	376	127	84
4....	46	30	23	15	16	14	23	100	557	308	122	89
5....	50	29	20	19	18	16	24	124	617	288	118	84
6....	46	28	18	16	16	18	23	137	569	285	111	80
7....	46	29	20	16	16	16	24	154	424	273	108	76
8....	45	28	20	17	15	16	22	158	368	256	107	74
9....	49	27	25	16	16	20	20	149	311	231	101	94
10....	49	27	23	16	14	18	20	156	259	219	94	127
11....	43	23	18	14	16	20	21	195	267	219	95	102
12....	43	19	20	18	16	15	16	304	322	212	90	101
13....	38	25	9.8	14	14	13	28	322	364	203	87	92
14....	39	27	14	14	16	18	20	221	470	197	84	92
15....	35	23	16	15	14	18	25	191	551	193	81	87
16....	35	17	23	14	16	20	31	282	502	201	84	80
17....	35	18	17	14	13	23	34	322	507	206	83	75
18....	32	14	19	16	14	20	31	262	449	419	84	80
19....	26	12	8.2	20	15	18	31	214	424	409	84	83
20....	31	14	4.9	16	15	22	37	223	480	311	87	93
21....	29	18	6.4	14	15	23	54	240	475	199	93	90
22....	28	20	12	14	13	23	59	217	444	273	100	101
23....	30	29	14	14	14	23	56	212	404	228	100	102
24....	29	22	9.0	12	16	24	57	212	376	201	102	100
25....	28	15	7.8	13	16	24	67	233	333	184	122	95
26....	28	8.6	6.7	14	18	26	76	276	329	178	140	90
27....	27	7.0	11	16	20	26	81	414	295	164	160	93
28....	29	20	14	12	25	26	84	400	304	162	144	89
29....	26	26	16	16	25	25	78	380	304	178	124	98
30....	26	18	16	16	....	23	64	424	276	170	110	114
31....	30	....	16	18	....	20	....	523	....	168	100	....
Total	1136	663.6	489.8	484	472	622	1183	7225	12856	7596	3328	2747
Mean.	36.6	22.1	15.8	15.6	16.3	20.1	39.4	233	429	245	107	91.6
Max..	50	31	25	20	25	26	84	523	648	419	160	127
Min...	26	7	4.9	12	13	13	16	56	259	162	81	74
Acre-ft.	2250	1320	972	960	936	1230	2350	14330	25500	15070	6600	5450

Total run-off for water year 1939-40=76,970 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River at Mouth of Canon Near Drake, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	164	71	52	33	24	23	53	250	790	276	184	87
2....	160	74	49	35	22	23	50	307	635	265	173	78
3....	160	75	46	36	19	23	59	355	473	258	154	64
4....	152	68	41	35	20	23	59	298	521	284	140	63
5....	150	78	44	34	18	22	71	298	635	273	128	55
6....	148	60	43	34	16	23	67	371	680	268	118	55
7....	164	54	40	34	18	24	62	273	510	265	154	59
8....	154	76	42	34	16	25	67	245	417	263	182	85
9....	142	86	43	33	15	27	68	228	355	252	146	102
10....	136	80	44	32	16	30	73	260	340	240	124	90
11....	130	70	43	33	19	30	73	260	340	232	110	78
12....	124	58	33	35	25	28	75	260	336	222	94	80
13....	116	36	33	34	19	31	81	238	371	212	96	77
14....	114	45	47	33	25	33	87	260	413	203	98	80
15....	112	63	51	30	27	30	100	291	482	189	89	73
16....	106	73	47	34	25	30	104	359	435	187	85	60
17....	106	78	45	30	24	26	78	314	391	173	74	59
18....	106	56	41	34	23	27	77	332	359	160	70	48
19....	110	60	39	29	22	31	87	435	307	146	68	41
20....	104	58	41	32	22	30	85	477	276	134	77	36
21....	102	42	39	31	21	45	85	449	265	132	73	36
22....	100	40	38	28	23	50	100	463	255	130	59	36
23....	94	36	37	33	21	51	128	510	248	122	64	36
24....	89	32	36	29	23	53	134	482	263	112	67	53
25....	81	43	35	31	24	54	130	435	265	110	64	73
26....	81	40	34	26	24	60	130	359	268	112	60	67
27....	75	47	33	27	25	60	126	311	273	114	64	63
28....	75	53	31	30	25	46	146	329	271	116	70	58
29....	81	50	32	24	....	44	191	422	284	108	85	63
30....	66	52	31	26	....	45	218	616	298	128	96	75
31....	74	....	32	26	....	49	....	666	....	184	106	....
Total	3576	1754	1242	975	601	1096	2864	11153	11756	5870	3172	1930
Mean.	115	58.5	40.1	31.5	21.5	35.4	95.5	360	392	189	102	64.3
Max..	164	86	52	36	27	60	218	666	790	284	184	102
Min...	66	32	31	24	15	22	50	228	248	108	59	36
Acre-ft.	7090	3480	2460	1930	1190	2170	5680	22120	23320	11640	6290	3830

Total run-off for water year 1938-39=91,200 acre-feet.

Discharge of Big Thompson River at Mouth of Canon Near Drake, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	63	40	21	20	17	18	28	68	641	288	171	102
2....	39	41	22	22	16	15	31	60	680	426	156	89
3....	42	36	23	21	14	14	34	77	699	400	148	87
4....	44	39	24	16	15	12	29	124	591	329	140	100
5....	57	38	23	17	17	11	31	158	692	301	132	92
6....	51	35	20	16	16	15	32	178	622	298	122	81
7....	46	38	21	16	15	11	33	196	449	288	120	78
8....	44	36	21	16	14	11	32	196	391	271	116	75
9....	59	36	24	15	15	17	23	187	332	242	104	102
10....	58	34	25	14	14	16	22	187	288	232	92	160
11....	50	27	20	13	15	18	24	230	291	235	87	152
12....	41	20	21	15	15	13	19	298	355	230	80	118
13....	41	25	12	14	14	12	29	314	413	218	80	104
14....	42	29	15	14	15	14	21	255	516	212	74	108
15....	38	26	19	14	14	14	27	228	622	208	68	96
16....	39	19	24	14	15	17	36	298	556	220	77	89
17....	39	19	19	14	13	19	45	344	562	222	78	83
18....	40	15	19	15	14	16	36	291	493	444	83	89
19....	28	13	10	18	14	16	33	242	458	431	78	92
20....	42	19	7	14	14	21	40	250	510	329	87	106
21....	37	20	8	14	13	22	54	276	499	260	100	110
22....	34	25	12	13	12	23	64	235	458	284	110	124
23....	37	31	15	12	13	24	64	215	413	242	114	120
24....	36	27	11	11	14	25	63	218	391	215	114	120
25....	33	22	9	12	16	26	71	242	347	196	144	116
26....	35	11	7	13	17	26	90	273	344	187	169	108
27....	32	9	7	15	19	31	100	400	314	187	180	110
28....	34	18	10	12	23	28	112	395	321	184	164	112
29....	31	27	13	13	22	29	104	375	321	200	144	122
30....	33	21	16	16	....	25	80	417	294	191	126	146
31....	38	....	16	17	....	22	....	521	....	189	114	....
Total	1283	796	514	466	445	581	1407	7748	13863	8159	3572	3191
Mean.	41.4	26.5	16.6	15.0	15.3	18.7	46.9	250	462	263	115	106
Max..	63	41	25	22	23	31	112	521	699	444	180	160
Min...	28	9	7	11	12	11	19	60	288	184	68	75
Acre-ft.	2540	1580	1020	924	883	1150	2790	15370	27500	16180	7080	6330

Total run-off for water year 1939-40=83,350 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River at Mouth Near La Salle, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	65	78	75	51	45	46	55	15	30	20	3.8	2.5
2....	64	79	76	51	45	45	53	14	34	17	4.0	2.6
3....	63	80	76	50	44	44	52	14	34	15	3.8	2.3
4....	62	80	77	50	43	44	51	13	37	14	4.0	2.2
5....	62	81	75	50	41	45	51	8.8	35	10	4.3	2.3
6....	61	80	75	49	40	46	51	6.7	30	9.1	4.6	2.5
7....	62	80	75	48	40	48	51	7.9	23	8.5	4.3	2.6
8....	64	80	77	47	40	50	54	8.8	28	8.2	4.3	2.8
9....	69	80	78	49	41	51	54	4.6	29	8.5	4.3	2.5
10....	69	81	78	49	42	52	52	4.6	30	8.5	4.3	2.0
11....	68	81	78	49	42	52	52	4.6	27	10	4.6	1.6
12....	67	81	78	50	42	56	51	3.8	22	10	4.3	1.6
13....	67	79	76	50	42	58	51	4.6	16	8.8	4.0	1.9
14....	65	79	73	49	42	59	51	4.9	17	7.3	3.7	2.0
15....	64	77	73	48	42	61	52	4.6	18	7.3	3.7	2.0
16....	66	77	72	47	43	61	57	7.9	20	6.4	3.8	2.3
17....	68	78	71	46	44	62	52	11	21	6.1	3.8	2.3
18....	63	76	69	46	44	63	38	6.4	23	5.8	3.8	2.2
19....	64	76	68	45	44	62	34	4.6	25	6.4	3.5	1.9
20....	76	76	66	45	43	60	32	4.9	25	6.7	3.3	1.9
21....	75	75	66	45	43	59	30	5.2	22	5.8	3.0	1.9
22....	77	75	66	45	43	59	30	5.2	23	5.8	3.0	1.9
23....	77	74	64	45	44	59	28	5.5	23	6.1	3.2	1.9
24....	78	74	61	44	44	59	22	6.1	22	6.4	3.2	2.3
25....	78	73	59	44	44	57	20	14	20	5.2	3.0	2.6
26....	79	74	58	45	44	54	18	13	20	4.9	3.0	3.5
27....	79	73	57	45	45	54	18	12	22	5.5	2.6	3.5
28....	80	73	57	45	45	58	18	11	22	4.6	2.5	3.2
29....	81	73	56	45	....	60	17	14	41	4.0	2.5	2.5
30....	79	74	54	45	....	61	16	16	28	4.0	2.6	2.6
31....	79	....	52	45	....	59	....	17	....	3.7	2.6	....
Total	2171	2317	2136	1462	1201	1704	1211	273.7	767	249.6	111.4	69.9
Mean.	11.8	17.5	....	....	....	....	110	183	105	4.02	1.37	6.40
Max..	81	81	78	51	45	63	57	17	41	20	4.6	3.5
Min...	61	73	52	44	40	44	16	3.8	16	3.7	2.5	1.6
Acre-ft.	4310	4600	4240	2900	2380	3380	2400	543	1520	495	221	139

Total run-off for water year 1938-39=27,128 acre-feet.

Discharge of Big Thompson River at Mouth Near La Salle, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.0	4.6	44	29	39	41	17	1.8	3.0	14	7.6	1.8
2....	1.8	3.2	41	28	40	41	6.7	2.5	3.3	26	6.7	1.8
3....	1.5	3.0	37	27	40	40	5.8	2.6	3.7	60	5.8	2.3
4....	1.1	4.0	34	27	40	44	5.8	2.5	3.5	52	5.2	2.6
5....	1.0	3.7	34	27	40	42	5.5	2.5	18	30	4.9	2.5
6....	1.1	3.0	32	27	40	43	5.2	2.5	16	32	3.8	2.8
7....	1.6	3.8	30	27	41	40	5.2	1.5	30	28	5.5	2.3
8....	1.9	3.8	30	27	41	38	4.3	1.0	20	24	4.0	1.6
9....	2.0	18	31	28	40	37	3.5	1.1	14	16	3.5	1.8
10....	2.2	26	31	29	41	37	3.2	1.0	14	14	3.5	3.8
11....	2.3	33	28	29	41	37	3.2	0.8	8.8	13	3.3	3.8
12....	2.0	35	26	28	40	37	3.3	0.6	6.4	10	3.2	2.5
13....	2.2	37	25	27	40	36	2.8	1.5	5.8	9.4	2.6	2.5
14....	2.3	38	24	27	40	35	2.6	1.4	8.2	8.8	2.5	4.0
15....	2.3	38	24	28	40	35	2.3	1.0	10	7.9	2.3	4.0
16....	2.2	38	26	29	40	37	2.3	1.3	11	8.2	2.3	2.2
17....	2.2	37	26	27	38	35	2.6	1.5	8.5	7.9	2.2	2.3
18....	2.3	37	22	25	38	35	3.0	1.6	9.1	8.8	2.2	2.3
19....	1.9	39	22	24	38	36	2.0	1.6	11	12	2.0	2.3
20....	1.8	40	22	25	38	35	1.9	2.2	8.8	16	2.0	2.6
21....	1.8	40	21	26	38	33	1.6	3.5	10	23	1.6	2.8
22....	1.6	42	22	25	37	32	1.5	3.5	9.7	24	1.9	6.1
23....	1.5	42	24	26	37	32	1.6	3.2	10	24	1.9	13
24....	1.5	42	26	25	38	31	1.9	3.0	11	25	1.6	19
25....	1.8	41	28	28	39	30	1.5	2.8	9.4	22	1.5	20
26....	1.5	43	27	34	39	30	1.5	2.6	12	18	1.5	9.7
27....	1.3	43	25	35	40	30	1.4	3.0	13	17	1.4	5.2
28....	1.1	46	26	35	41	31	1.5	3.0	12	17	1.4	4.3
29....	15	48	27	34	41	30	2.0	3.2	14	15	1.6	3.8
30....	36	46	28	35	....	30	1.6	3.5	13	13	1.6	3.5
31....	15	....	29	37	....	30	....	3.2	....	11	1.6	....
Total	115.8	878.1	872	885	1145	1100	104.3	67.0	327.2	607.0	92.7	139.2
Mean.	3.74	29.3	28.1	28.5	39.5	35.5	3.48	2.16	10.9	19.6	2.99	4.64
Max..	36	48	44	37	41	44	17	3.5	30	60	7.6	20
Min...	1.0	3.0	21	24	37	30	1.4	0.6	3.0	7.9	1.4	1.6
Acre-ft.	230	1740	1730	1760	2270	2180	207	133	649	1200	184	276

Total run-off for water year 1939-40=12,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cache La Poudre River at Mouth of Canyon Near Fort Collins, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	162	7.2	10	.20	15	15	7.9	107	2000	720	438	492
2....	181	7.2	7.2	20	13	15	7.2	120	1780	680	432	384
3....	169	6.5	5.8	20	14	15	7.9	253	1320	641	389	368
4....	153	5.8	5.5	19	13	15	9.3	313	1630	610	374	352
5....	144	5.8	7.0	19	12	14	12	389	2150	564	347	358
6....	136	5.1	5.5	18	14	14	11	485	2180	557	332	368
7....	142	4.0	5.0	17	15	14	11	886	1900	610	352	389
8....	150	4.0	5.5	17	16	16	11	842	1690	595	308	426
9....	156	4.1	8.0	18	15	17	10	913	1460	542	230	438
10....	150	3.7	15	17	14	16	10	1030	1280	626	191	384
11....	139	3.7	20	16	16	15	11	985	1250	595	178	384
12....	130	3.8	21	17	17	14	12	895	1120	534	162	298
13....	133	4.0	24	18	17	13	12	834	1260	506	212	175
14....	130	6.4	25	18	18	11	11	922	1460	406	226	130
15....	125	6.3	25	17	18	10	12	1010	1430	438	249	104
16....	122	6.5	24	18	17	8.5	11	1160	1350	438	258	90
17....	122	9.3	24	19	16	7.5	10	1010	1270	426	242	83
18....	125	15	23	20	16	7.2	104	1130	1110	374	238	76
19....	125	15	22	19	15	7.0	166	1400	809	332	242	74
20....	117	15	22	19	15	6.8	166	1690	712	322	253	70
21....	112	15	22	19	15	6.5	162	1580	688	289	245	68
22....	112	10	22	18	15	7.2	162	1430	834	266	234	64
23....	104	7.0	22	18	15	7.2	184	1790	825	249	234	62
24....	36	5.8	21	18	16	6.5	198	1810	825	308	238	64
25....	10	11	20	18	16	6.5	201	1660	834	303	156	83
26....	7.2	9.3	18	17	15	6.5	205	1430	859	294	104	74
27....	7.9	8.6	17	17	15	6.5	212	1190	801	318	95	72
28....	7.9	15	19	18	15	7.2	184	1090	784	368	198	70
29....	7.2	12	19	17	....	6.5	76	1360	825	332	384	68
30....	7 2	12	19	16	....	7.9	92	1700	801	406	426	81
31....	7.2	....	20	16	....	7.9	....	1720	....	492	451	....
Total	3229.6	244.1	523.5	558	428	327.4	2288.3	33134	37237	14141	8418	6149
Mean.	104	8.14	16.9	18.0	15.3	10.6	76.3	1069	1241	456	272	205
Max..	181	15	25	20	18	17	212	1810	2180	720	451	492
Min...	7.2	3 7	5.0	16	12	6.5	7.2	107	688	249	95	62
Acre-ft.	6410	484	1040	1110	849	649	4540	65720	73860	28050	16700	12200

Total run-off for water year 1938-39—211,612 acre-feet.

Discharge of Cache La Poudre River at Mouth of Canon Near Fort Collins, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	76	79	24	19	22	38	21	147	1720	610	162	242
2....	72	81	20	19	21	35	24	117	1440	665	156	327
3....	68	79	21	18	20	31	27	150	1370	793	144	342
4....	64	68	21	18	20	26	19	195	1220	728	208	368
5....	66	62	19	15	20	24	20	284	1230	580	294	363
6....	64	60	15	10	21	23	23	342	1130	557	294	363
7....	68	60	17	11	24	20	30	464	859	595	303	342
8....	68	60	9.3	12	25	16	26	445	728	602	313	327
9....	79	54	19	14	24	21	19	432	572	549	303	249
10....	92	50	19	15	24	30	19	564	458	520	289	212
11....	83	38	16	16	24	27	19	680	492	492	156	175
12....	86	33	15	16	25	26	18	913	610	464	90	136
13....	88	28	5.1	15	26	16	17	842	809	451	83	110
14....	88	28	3.7	14	26	16	20	618	1030	426	88	120
15....	83	27	13	15	25	28	21	564	1100	284	79	110
16....	81	18	15	16	26	30	38	768	1200	284	68	100
17....	79	15	16	15	26	30	52	931	1190	271	368	88
18....	74	10	12	14	25	27	42	720	1160	406	266	97
19....	72	3.0	11	12	24	21	33	649	1130	499	303	92
20....	70	7.9	8	13	23	23	34	825	1140	413	358	92
21....	64	18	11	14	23	26	48	793	1140	426	379	92
22....	62	30	15	15	24	27	58	728	1010	438	368	94
23....	62	40	14	15	25	28	62	744	940	406	358	96
24....	62	27	10	13	26	30	60	776	877	395	374	160
25....	64	27	8	14	27	31	92	877	793	363	219	139
26....	64	15	10	15	29	31	120	985	704	347	150	122
27....	62	6.5	12	16	35	33	136	1220	610	342	172	114
28....	62	11	14	16	38	31	159	1310	618	332	169	114
29....	58	19	16	17	40	30	184	1340	626	271	136	144
30....	68	24	17	20	....	27	178	1310	618	208	122	238
31....	62	....	19	22	....	23	....	1540	....	181	107	....
Total	2211	1078.4	445.1	474	738	825	1619	22273	28524	13898	6879	5568
Mean.	71.3	35.9	14.4	15.3	25.4	26.6	54.0	718	951	448	222	186
Max..	92	81	24	22	40	38	184	1540	1720	793	379	368
Min...	58	3.0	3.7	10	20	16	17	117	458	181	68	88
Acre-ft.	4390	2140	883	940	1460	1640	3210	44180	56580	27570	13640	11040

Total run-off for water year 1939-40—167,670 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cache La Poudre River Near Mouth Near Greeley, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	26	29	88	66	83	80	81	24	23	13	10	9.8
2....	28	35	88	63	70	80	81	19	28	13	9.8	9.8
3....	21	35	85	67	76	80	78	8.6	32	13	9.8	9.2
4....	17	28	83	68	88	79	78	5.6	36	13	9.2	8.6
5....	17	28	81	63	85	82	78	5.0	25	13	8.6	8.6
6....	23	29	83	67	81	88	79	5.6	19	18	9.2	8.0
7....	24	29	84	66	85	100	85	8.6	16	43	10	8.6
8....	23	28	83	67	75	126	87	11	13	39	10	9.8
9....	23	28	83	76	71	123	87	6.8	15	30	9.8	9.8
10....	25	57	84	71	74	111	87	6.2	23	9.8	10	9.2
11....	23	88	84	68	80	144	87	8.0	25	9.8	11	8.8
12....	21	87	78	68	96	144	84	17	30	9.8	11	8.6
13....	19	84	74	70	72	123	80	24	26	9.8	10	9.2
14....	17	84	81	80	82	116	78	15	18	10	10	7.4
15....	17	84	81	67	85	110	81	16	19	12	11	7.4
16....	17	81	83	80	83	114	72	12	18	11	9.8	6.8
17....	16	83	74	80	80	117	64	16	12	11	8.6	6.8
18....	21	81	70	83	79	117	61	16	15	12	16	6.8
19....	24	83	68	83	78	116	56	13	10	11	51	6.2
20....	29	83	74	81	77	116	48	12	16	11	53	6.8
21....	32	81	74	85	77	114	39	13	13	10	41	6.8
22....	28	79	70	79	81	97	49	15	9.8	9.2	16	6.8
23....	23	79	67	67	77	92	46	9.8	9.8	8.6	14	7.4
24....	24	79	64	75	80	88	48	15	14	8.0	14	8.0
25....	24	83	67	80	79	88	42	23	15	7.4	14	8.0
26....	25	78	63	79	80	85	39	26	15	8.0	15	8.0
27....	27	83	63	80	84	85	38	27	19	8.0	17	8.0
28....	25	79	66	84	83	94	34	21	12	9.2	13	8.0
29....	23	83	62	88	....	93	34	19	12	9.8	12	18
30....	22	85	63	85	....	88	34	19	13	11	12	48
31....	24	....	67	90	....	83	....	16	....	11	10	....
Total	708	1973	2335	2326	2241	3173	1935	453.2	551.6	412.4	465.8	293.0
Mean.	22.8	65.8	75.3	75.0	80.0	102	64.5	14.6	18.4	13.3	15.0	9.77
Max..	32	88	88	90	96	144	87	27	36	43	53	48
Min...	16	28	62	63	70	79	34	5	9.8	7.4	8.6	6.2
Acre-ft.	1400	3910	4630	4610	4440	6290	3840	899	1090	818	924	581

Total run-off for water year 1938-39=33,432 acre-feet.

Discharge of Cache La Poudre River Near Mouth Near Greeley, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	47	12	30	55	52	61	48	6.2	12	25	9.2	2.6
2....	46	12	31	54	51	59	48	4.4	15	27	9.2	2.3
3....	45	10	12	54	50	57	46	4.4	18	34	9.2	2.6
4....	35	11	10	53	50	57	47	4.4	22	65	9.2	2.9
5....	11	3.5	12	53	53	56	47	4.4	31	34	8.6	15
6....	9.8	15	17	50	52	61	51	4.7	34	25	7.4	28
7....	9.8	14	26	45	54	57	51	5.0	37	16	6.2	30
8....	9.2	13	41	50	53	53	50	6.8	49	12	6.2	28
9....	9.2	15	42	51	53	50	51	5.6	78	9.8	6.2	41
10....	9.8	16	45	50	54	49	49	5.6	74	8.0	5.6	45
11....	10	18	55	50	54	49	50	5.0	53	7.4	5.0	37
12....	9.2	14	56	49	54	49	49	6.2	13	8.6	5.0	34
13....	9.2	13	55	50	54	48	49	6.8	12	9.2	5.0	34
14....	10	13	53	48	55	46	48	8.6	12	9.8	6.2	33
15....	9.8	14	55	48	57	46	47	6.2	10	9.2	5.6	34
16....	9.8	13	55	50	53	46	44	8.0	15	10	7.4	29
17....	9.8	13	54	50	53	46	48	15	19	11	5.0	12
18....	9.8	15	54	49	53	45	37	22	23	11	4.7	16
19....	9.8	13	53	53	57	45	13	20	18	12	4.7	13
20....	12	12	56	53	53	45	7.4	16	22	13	4.7	12
21....	12	12	57	51	53	45	6.2	21	18	15	4.4	16
22....	12	12	55	49	54	45	5.6	23	18	13	4.1	18
23....	13	12	55	47	50	45	5.0	21	19	12	3.8	17
24....	13	12	53	47	53	45	5.0	18	20	10	3.8	15
25....	13	12	55	47	54	48	5.0	13	20	12	3.5	20
26....	13	12	51	47	56	47	5.0	8.0	22	12	3.8	18
27....	13	12	51	47	56	48	4.7	16	24	10	3.5	11
28....	13	16	53	47	57	49	5.6	18	24	10	3.2	9.8
29....	14	22	53	49	61	49	5.0	14	23	9.8	2.9	11
30....	13	22	55	49	....	48	5.0	9.2	23	9.8	2.6	12
31....	12	....	55	50	....	48	....	8.6	....	9.2	2.3	....
Total	472.2	403.5	1405	1545	1559	1542	932.5	335.1	778	479.8	168.2	599.2
Mean.	15.2	13.4	45.3	49.8	53.8	49.7	31.1	10.8	25.9	15.5	5.43	20.0
Max..	47	22	57	55	61	61	51	23	78	65	9.2	45
Min...	9.2	3.5	10	45	50	45	4.7	4.4	10	7.4	2.3	2.3
Acre-ft.	937	800	2790	3060	3090	3060	1850	665	1540	952	334	1190

Total run-off for water year 1939-40=20,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Republican River Near Wray, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	20	23	26	23	24	26	22	21	16	22	17
2....	16	20	23	25	23	24	24	22	24	16	22	17
3....	16	20	24	24	23	24	24	22	20	16	22	16
4....	16	20	24	23	23	24	24	22	20	16	22	16
5....	16	21	24	22	23	24	24	21	20	16	22	16
6....	16	21	24	22	23	24	24	21	19	15	22	16
7....	16	21	24	22	23	24	23	21	19	15	21	16
8....	16	22	25	24	24	24	23	21	19	15	20	16
9....	17	22	25	24	24	25	23	21	19	15	20	16
10....	17	22	25	24	24	24	28	19	19	16	20	16
11....	17	22	25	23	23	25	28	19	19	16	20	16
12....	17	23	26	23	23	27	24	18	19	16	20	16
13....	18	23	26	23	23	28	23	18	19	16	19	16
14....	18	24	26	23	23	27	22	18	18	16	18	16
15....	18	24	27	23	23	24	23	18	18	16	18	16
16....	19	24	28	23	23	24	23	18	18	16	18	16
17....	20	24	28	23	23	24	22	18	18	16	18	16
18....	20	24	29	23	23	25	22	18	18	16	18	19
19....	20	23	29	24	23	24	21	17	17	17	19	20
20....	20	23	29	24	23	24	21	18	17	17	19	20
21....	20	23	29	24	23	24	20	16	17	15	18	19
22....	20	22	29	24	23	24	20	16	17	16	18	18
23....	20	22	30	24	23	24	20	17	17	16	18	18
24....	20	22	30	24	23	24	20	18	16	16	18	18
25....	20	23	28	24	23	24	20	18	16	17	18	18
26....	20	23	24	24	23	24	21	26	15	15	18	18
27....	20	23	19	24	23	24	21	28	17	15	18	18
28....	20	23	21	24	24	24	21	22	17	15	17	18
29....	20	23	24	24	....	24	21	21	16	15	17	18
30....	20	23	25	24	....	30	21	20	16	15	16	18
31....	20	....	25	24	....	27	....	20	....	84	17	....
Total	569	670	798	732	648	766	677	614	545	557	593	514
Mean.	18.4	22.3	25.7	23.6	23.1	24.7	22.6	19.8	18.2	18.0	19.1	17.1
Max..	20	24	30	26	24	30	28	28	24	84	22	20
Min...	16	20	19	22	23	24	20	16	15	15	16	16
Acre-ft.	1130	1330	1580	1450	1290	1520	1340	1220	1080	1100	1180	1020

Total run-off for water year 1938-39=15,240 acre-feet.

Discharge of North Fork of Republican River Near Wray, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	20	23	22	25	24	23	23	20	17	15	19
2....	18	20	23	22	25	28	23	23	18	17	14	20
3....	18	20	23	22	25	31	23	22	18	17	14	20
4....	18	20	22	22	24	26	22	22	20	17	14	22
5....	18	20	22	23	24	26	22	20	21	17	14	23
6....	18	20	22	23	24	25	22	20	22	17	14	21
7....	18	20	22	23	25	25	23	20	83	17	15	21
8....	18	20	22	23	24	24	23	20	34	17	15	19
9....	18	20	22	23	24	24	22	20	20	17	15	19
10....	19	20	22	23	24	25	21	19	20	17	16	20
11....	20	20	22	23	26	25	22	18	20	16	16	20
12....	20	20	22	23	26	24	21	18	19	15	16	18
13....	20	22	22	23	25	24	22	18	20	15	15	18
14....	19	22	21	23	25	26	22	17	20	13	15	19
15....	19	22	21	23	25	28	21	18	20	16	15	19
16....	20	22	21	23	25	27	24	34	19	13	16	21
17....	20	22	22	23	25	25	24	120	10	13	15	20
18....	19	22	22	23	25	24	24	23	8.2	13	15	20
19....	19	22	22	23	25	24	23	23	15	12	15	18
20....	19	22	22	23	25	23	23	24	15	12	14	18
21....	20	22	22	22	25	23	22	55	15	12	14	19
22....	20	22	22	22	24	23	22	26	15	12	14	17
23....	20	22	22	22	25	24	22	24	15	11	14	20
24....	20	22	22	21	25	24	22	22	15	12	14	22
25....	20	22	22	21	25	24	22	21	15	11	15	21
26....	20	23	22	21	25	24	22	20	15	11	15	19
27....	20	23	22	21	24	24	22	20	15	11	15	17
28....	20	23	22	21	24	26	23	20	16	14	16	16
29....	20	23	22	22	24	24	22	20	15	17	15	17
30....	20	23	22	23	....	23	22	20	15	17	26	19
31....	20	....	22	25	....	23	....	20	....	15	20	....
Total	596	641	682	697	717	770	671	790	593.2	451	476	582
Mean..	19.2	21.4	22.0	22.5	24.7	24.8	22.4	25.5	19.8	14.5	15.4	19.4
Max..	20	23	23	25	26	31	24	120	83	17	26	23
Min...	18	20	21	21	24	23	21	17	8.2	11	14	16
Acre-ft.	1180	1270	1350	1380	1420	1530	1330	1570	1180	895	944	1150

Total run-off for water year 1939-40=15,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Republican River at Colorado-Nebraska State Line for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	28	30	58	64	54	56	58	37	25	7.5	85	6.7
2....	37	30	55	68	56	54	52	34	67	7.1	16	7.9
3....	24	30	61	65	59	58	54	27	35	5.1	8.3	7.1
4....	14	33	56	61	51	54	59	24	31	4.8	6.2	7.5
5....	22	34	59	65	52	55	54	27	27	5.1	7.5	6.7
6....	19	37	56	62	51	59	54	26	22	4.8	6.2	9.2
7....	18	36	58	62	56	62	55	24	22	4.5	7.5	7.5
8....	19	33	65	64	52	58	55	25	22	5.4	9.2	7.5
9....	21	33	62	70	35	58	55	23	23	5.4	7.5	7.9
10....	22	35	61	61	38	59	67	21	28	3.9	6.7	7.9
11....	22	35	62	65	45	65	68	13	17	4.8	7.5	7.5
12....	22	33	61	62	50	64	61	12	21	4.2	7.5	6.2
13....	24	34	64	62	60	62	56	9.2	26	4.2	6.7	5.8
14....	24	33	65	65	58	61	58	7.5	24	3.6	7.1	7.1
15....	25	34	65	61	56	55	62	7.1	18	3.6	7.5	9.2
16....	31	38	64	64	58	49	59	7.1	16	3.6	6.2	9.2
17....	22	55	62	64	55	55	58	12	9.2	4.2	5.8	8.8
18....	22	56	61	64	59	54	55	6.2	8.3	4.5	7.1	12
19....	21	54	65	62	56	54	58	5.8	8.3	4.2	7.5	9.2
20....	25	51	61	61	52	52	58	9.6	13	3.3	6.7	9.2
21....	26	48	65	58	56	54	55	9.2	24	3.0	6.7	9.6
22....	26	61	65	56	58	47	58	7.5	11	3.0	6.2	8.3
23....	30	65	59	59	54	47	58	6.2	10	3.3	6.7	7.9
24....	26	64	64	56	55	52	59	5.8	11	2.7	5.8	9.2
25....	27	67	64	55	55	47	62	19	32	3.0	6.2	12
26....	29	67	59	56	56	46	59	58	16	4.8	6.7	13
27....	30	67	50	55	55	52	54	46	8.8	3.9	7.5	15
28....	29	64	52	58	55	58	44	24	6.2	3.6	6.2	21
29....	30	64	56	54	....	54	37	17	7.9	3.9	7.1	17
30....	44	56	60	55	....	64	34	10	6.7	4.5	6.7	23
31....	28	....	62	58	....	59	....	13	....	70	7.1	....
Total	787	1377	1877	1892	1497	1724	1676	573.2	596.4	199.5	302.6	296.1
Mean.	25.4	45.9	60.5	61.0	53.5	55.6	55.9	18.5	19.9	6.44	9.76	9.87
Max..	44	67	65	70	60	65	68	58	67	70	85	23
Min...	14	30	50	54	35	46	34	5.8	6.2	2.7	5.8	5.8
Acre-ft.	1560	2730	3720	3750	2970	3420	3320	1140	1180	396	600	587

Total run-off for water year 1938-39=25,370 acre-feet.

Discharge of North Fork of Republican River at Colorado-Nebraska State Line for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	50	29	53	64	62	68	70	42	11	8.1	3.2	8.1
2....	27	29	50	65	60	89	68	38	11	6.8	3.2	8.6
3....	24	35	53	62	64	84	65	36	9.0	7.2	2.9	82
4....	25	35	54	64	65	78	74	29	14	6.4	2.7	220
5....	26	50	54	60	68	71	68	26	14	6.8	2.4	84
6....	25	34	54	58	70	70	64	19	52	8.1	2.4	79
7....	25	32	53	56	73	68	70	17	188	10	2.4	70
8....	49	34	53	54	73	66	70	16	110	7.2	2.7	64
9....	23	35	54	54	70	68	62	15	74	6.4	2.2	62
10....	25	35	60	56	70	65	66	11	53	5.0	2.2	66
11....	22	36	59	56	65	62	68	9.0	45	6.8	2.1	64
12....	23	38	59	63	65	62	58	15	52	7.2	2.4	65
13....	20	40	58	60	62	64	62	18	47	6.4	2.9	58
14....	20	40	62	59	64	66	60	14	46	5.5	3.6	42
15....	19	39	62	63	64	68	60	8.1	46	5.5	3.4	45
16....	19	32	60	67	64	74	65	9.0	42	5.9	3.4	24
17....	24	31	62	68	59	66	66	43	20	5.5	4.1	25
18....	23	32	60	68	59	65	65	35	15	4.6	3.9	26
19....	20	35	58	66	62	73	62	23	11	4.4	4.6	27
20....	23	49	56	63	58	66	66	30	9.0	4.1	5.0	25
21....	24	58	56	60	58	65	58	36	8.1	4.1	5.0	27
22....	24	56	58	63	56	65	54	40	8.6	4.1	5.0	29
23....	26	56	55	63	60	68	53	26	8.6	4.1	5.0	40
24....	27	53	53	58	62	73	54	24	9.0	3.9	4.4	98
25....	25	54	55	52	59	73	40	25	7.7	4.6	4.4	54
26....	24	59	55	48	62	66	49	24	6.8	7.2	6.4	45
27....	26	60	50	48	59	66	53	29	6.4	4.4	7.2	49
28....	27	56	46	50	62	76	53	19	6.4	3.9	6.8	45
29....	46	56	48	54	66	73	54	15	5.9	4.1	5.9	39
30....	27	56	52	58	....	81	42	13	5.0	3.9	7.2	47
31....	26	....	56	60	....	74	....	13	....	3.9	8.6	....
Total	814	1284	1718	1840	1841	2173	1819	717.1	941.5	176.1	127.6	1617.7
Mean.	26.3	42.8	55.4	59.4	63.3	70.1	60.6	23.1	31.4	5.68	4.12	53.9
Max..	50	60	62	68	73	89	74	43	188	10	8.6	220
Min...	19	29	46	48	56	62	40	8.1	5.0	3.9	2.1	8.1
Acre-ft.	1610	2550	3410	3650	3650	4310	3610	1420	1870	349	253	3210

Total run-off for water year 1939-40=29,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Grizzly Creek Near Walden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	16	....	....	....	....	....	431	135	28	5.9	0.4
2....	17	16	....	....	....	....	....	424	181	26	14	0.4
3....	16	25	....	....	....	....	....	440	156	24	15	0.4
4....	15	....	....	....	....	....	....	452	109	21	14	0.5
5....	16	....	....	....	....	....	....	402	96	19	12	0.5
6....	16	....	....	....	....	....	....	390	89	18	9.7	0.6
7....	16	....	....	....	....	....	....	335	75	14	9.2	0.6
8....	17	....	....	....	....	....	....	255	68	13	11	2.9
9....	18	....	....	....	....	....	....	207	54	9.2	11	4.3
10....	19	....	....	....	....	....	....	212	50	5.9	8.0	4.3
11....	20	....	....	....	....	....	....	216	61	3.9	6.3	4.3
12....	20	....	....	....	....	....	....	194	46	2.4	4.7	3.5
13....	20	....	....	....	....	....	April 15	178	35	1.3	5.1	2.9
14....	20	....	....	....	....	....	to 30	143	27	1.0	4.7	2.9
15....	19	....	....	....	....	....	120	144	25	0.6	3.9	2.4
16....	18	....	....	....	....	....	105	162	21	0.5	2.7	1.3
17....	19	....	....	....	....	....	95	173	18	0.4	1.0	0.7
18....	18	....	....	....	....	....	83	146	18	0.4	0.6	0.6
19....	20	....	....	....	....	....	94	167	25	0.4	0.6	0.4
20....	19	....	....	....	....	....	91	181	29	0.4	0.4	0.4
21....	18	....	....	....	....	....	96	188	36	0.3	0.4	0.5
22....	18	....	....	....	....	....	127	165	35	0.2	0.4	0.5
23....	18	....	....	....	....	....	201	159	32	0.1	0.4	0.4
24....	18	....	....	....	....	....	221	160	35	0.1	0.3	0.6
25....	18	....	....	....	....	....	216	151	37	0.1	0.2	1.5
26....	18	....	....	....	....	....	201	129	36	0.1	0.2	2.1
27....	18	....	....	....	....	....	216	106	35	0.1	0.2	3.2
28....	17	....	....	....	....	....	268	91	33	0.1	0.2	3.5
29....	17	....	....	....	....	....	322	82	30	0.1	0.2	5.1
30....	17	Nov. 1	....	....	....	....	388	86	31	0.1	0.4	6.7
31....	16	to 3	....	....	....	....	....	117	....	0.1	0.4	....
Total	552	57	....	....	....	....	2844	6686	1658	190.8	143.1	58.4
Mean.	17.8	19	....	....	....	....	178	216	55.3	6.15	4.62	1.95
Max..	20	25	....	....	....	....	388	452	181	28	15	6.7
Min...	15	16	....	....	....	....	83	82	18	0.1	0.2	0.4
Acre-ft.	1090	113	....	....	....	....	5640	13260	3290	378	284	116

Total run-off for water year 1938-39—24,171 acre-feet.

Discharge of Grizzly Creek Near Walden, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	....	....	....	....	....	120	63	84	13	0.1	1.6
2....	12	....	....	....	....	....	130	53	81	12	2.1	1.0
3....	14	....	....	....	....	....	120	92	86	13	2.1	.6
4....	16	....	....	....	....	....	105	155	86	14	1.9	.4
5....	16	....	....	....	....	....	100	193	89	14	1.4	.4
6....	16	....	....	....	....	....	98	201	95	12	1.2	.3
7....	16	....	....	....	....	....	96	198	126	10	1.2	.2
8....	17	....	....	....	....	....	88	177	95	11	1.2	.2
9....	20	....	....	....	....	....	80	158	68	9.7	1.9	.2
10....	24	....	....	....	....	....	74	168	63	7.9	1.7	.4
11....	24	....	....	....	....	....	67	169	50	9.7	1.2	.3
12....	27	....	....	....	....	....	60	163	32	6.8	.8	.2
13....	28	....	....	....	....	....	55	172	23	5.1	.6	.4
14....	31	....	....	....	....	....	52	224	18	3.6	.5	.6
15....	31	....	....	....	....	....	70	166	20	3.2	.4	.8
16....	32	....	....	....	....	....	78	153	23	2.1	.3	.8
17....	32	....	....	....	....	....	72	169	24	2.1	.2	1.6
18....	35	....	....	....	....	....	59	172	27	1.9	.1	1.9
19....	37	....	....	....	....	....	50	137	27	1.4	.1	2.1
20....	38	....	....	....	....	....	58	116	25	1.0	.1	2.5
21....	38	....	....	....	....	....	58	177	28	.6	0	4.0
22....	39	....	....	....	....	....	65	204	28	.5	0	4.4
23....	40	....	....	....	....	....	55	128	24	.4	0	5.5
24....	41	....	....	....	....	....	55	100	22	.3	.1	5.8
25....	42	....	....	....	....	....	99	86	20	.3	1.0	4.7
26....	43	....	....	....	....	....	142	84	19	.2	.8	4.0
27....	42	....	....	....	....	....	156	136	17	.2	.8	4.0
28....	51	....	....	....	....	....	164	163	16	.2	1.7	3.6
29....	44	....	....	....	....	....	127	150	15	.1	2.5	6.2
30....	43	....	....	....	....	....	93	120	14	.1	2.5	9.1
31....	44	....	....	....	....	....	....	100	....	.1	1.9	....
Total	944	....	....	....	....	....	2646	4547	1345	156.5	30.4	67.8
Mean.	30.5	....	....	....	....	....	88.2	147	44.8	5.05	.98	2.26
Max..	51	....	....	....	....	....	164	224	126	14	2.5	9.1
Min...	11	....	....	....	....	....	50	53	14	.1	0	.2
Acre-ft.	1870	....	....	....	....	....	5250	9020	2670	310	60	134

Total run-off for period=19,310 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Grizzly Creek Near Hebron, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	16	....	....	....	....	....	220	291	16	6.4	0
2....	15	18	....	....	....	....	....	240	268	13	5.8	0
3....	15	19	....	....	....	....	....	256	166	9.4	5.2	0
4....	11	17	....	....	....	....	....	266	166	8.8	3.7	0
5....	10	....	....	....	....	....	....	242	244	7.0	2.8	0
6....	11	....	....	....	....	....	....	236	211	5.8	2.5	0
7....	13	....	....	....	....	....	....	192	161	5.8	3.1	0
8....	15	....	....	....	....	....	....	146	144	5.2	3.1	0
9....	14	....	....	....	....	....	....	117	126	4.6	2.8	17
10....	13	....	....	....	....	....	....	146	156	6.4	2.2	14
11....	12	....	....	....	....	....	....	170	104	7.6	1.3	7.0
12....	11	....	....	....	....	....	....	153	97	5.8	1.0	26
13....	12	....	....	....	....	....	April 15	137	105	3.4	0.9	19
14....	11	....	....	....	....	....	to 30	101	131	1.9	0.7	11
15....	10	....	....	....	....	....	93	134	141	1.3	0.3	8.2
16....	9.7	....	....	....	....	....	80	151	105	0.8	0.2	7.0
17....	9.7	....	....	....	....	....	70	156	90	0.7	0.1	6.4
18....	9.7	....	....	....	....	....	58	153	76	1.6	0	6.4
19....	9.7	....	....	....	....	....	66	188	61	2.5	0	3.4
20....	10	....	....	....	....	....	64	203	48	2.2	0	3.4
21....	9.7	....	....	....	....	....	70	188	36	1.3	0.3	2.8
22....	10	....	....	....	....	....	98	179	33	0.8	0.2	2.5
23....	10	....	....	....	....	....	129	181	26	0.7	0	3.7
24....	11	....	....	....	....	....	126	186	25	0.5	0	4.6
25....	11	....	....	....	....	....	127	190	25	0.4	0	7.6
26....	11	....	....	....	....	....	126	158	23	0.3	0	7.6
27....	12	....	....	....	....	....	122	131	21	0.4	0	8.2
28....	13	....	....	....	....	....	142	141	21	0.5	0	7.6
29....	13	....	....	....	....	....	175	190	25	3.1	0	7.6
30....	15	Nov. 1	....	....	....	....	207	264	23	2.8	0	11
31....	15	to 4	....	....	....	....	....	248	....	4.0	0	....
Total	366.5	70	....	....	....	....	1753	5663	3149	124.6	42.6	192.0
Mean.	11.8	17.5	....	....	....	....	110	183	105	4.02	1.37	6.40
Max..	15	19	....	....	....	....	207	266	291	16	6.4	26
Min...	9.7	16	....	....	....	....	58	101	21	0.3	0	0
Acre-ft.	727	139	....	....	....	....	3480	11230	6250	247	84	381

Total run-off for water year 1938-39=22,538 acre-feet.

Discharge of Little Grizzly Creek, at Mouth Near Hebron, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	10	....	....	....	....	....	60	60	302	18	6.4	1.8
2....	8.8	....	....	....	....	....	65	50	313	17	5.0	1.4
3....	7.0	....	....	....	....	....	60	45	328	21	3.8	1.0
4....	7.0	....	....	....	....	....	55	40	315	23	3.0	.9
5....	9.4	....	....	....	....	....	50	75	288	20	1.8	.8
6....	13	....	....	....	....	....	40	80	315	15	1.4	.6
7....	13	....	....	....	....	....	35	80	274	12	1.4	.5
8....	14	....	....	....	....	....	30	80	170	11	1.8	.7
9....	16	....	....	....	....	....	30	90	142	9.2	1.8	1.0
10....	17	....	....	....	....	....	35	95	127	7.8	2.2	1.4
11....	15	....	....	....	....	....	37	120	108	6.4	1.4	1.4
12....	16	....	....	....	....	....	35	156	119	6.4	1.0	1.8
13....	14	....	....	....	....	....	35	215	159	5.0	.9	2.6
14....	13	....	....	....	....	....	35	240	204	5.0	.9	2.2
15....	13	....	....	....	....	....	60	170	201	7.1	.8	1.8
16....	13	....	....	....	....	....	75	153	199	7.8	.8	1.4
17....	14	....	....	....	....	....	75	208	197	7.1	.6	1.4
18....	14	....	....	....	....	....	50	212	168	8.5	.6	1.8
19....	14	....	....	....	....	....	65	148	122	11	.6	1.8
20....	15	....	....	....	....	....	75	142	117	7.1	.5	3.0
21....	14	....	....	....	....	....	90	274	122	5.7	.6	3.4
22....	15	....	....	....	....	....	80	212	120	5.7	.6	5.0
23....	16	....	....	....	....	....	70	112	90	5.0	.5	6.4
24....	14	....	....	....	....	....	55	87	68	5.0	.8	8.5
25....	14	....	....	....	....	....	80	96	50	4.6	1.4	8.5
26....	14	....	....	....	....	....	105	111	45	3.8	1.4	8.5
27....	14	....	....	....	....	....	105	278	40	3.4	2.6	8.5
28....	17	....	....	....	....	....	80	293	33	3.4	3.8	8.5
29....	16	....	....	....	....	....	60	268	28	3.8	3.0	9.9
30....	14	....	....	....	....	....	60	244	21	4.6	2.6	9.2
31....	16	....	....	....	....	....	....	244	....	7.8	1.8	....
Total	420.2	....	....	....	....	....	1787	4678	4785	278.2	55.8	105.7
Mean.	13.6	....	....	....	....	....	59.6	151	160	8.97	1.80	3.52
Max..	17	....	....	....	....	....	105	293	328	23	6.4	9.9
Min...	7.0	....	....	....	....	....	30	40	21	3.4	.5	.5
Acre-ft.	833	....	....	....	....	....	3540	9280	9490	552	111	210

Total run-off for period=24,020 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork Near Walden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	30	21	....	....	....	....	....	60	234	34	60	17
2....	30	26	....	....	....	....	....	67	163	30	55	16
3....	28	23	....	....	....	....	....	83	103	27	47	8.6
4....	27	21	....	....	....	....	....	81	123	26	44	8.6
5....	28	21	....	....	....	....	....	76	195	25	39	9.2
6....	31	....	....	....	....	....	....	91	209	23	47	9.8
7....	32	....	....	....	....	....	....	78	138	22	57	17
8....	33	....	....	....	....	....	....	58	105	24	42	42
9....	33	....	....	....	....	....	....	47	103	23	32	26
10....	32	....	....	....	....	....	....	55	105	23	30	20
11....	30	....	....	....	....	....	....	62	68	21	31	18
12....	29	....	....	....	....	....	April 14	67	61	19	30	29
13....	29	....	....	....	....	....	to 30	58	83	21	28	26
14....	28	....	....	....	....	....	53	32	133	22	26	21
15....	27	....	....	....	....	....	56	34	151	22	24	18
16....	26	....	....	....	....	....	56	55	111	22	24	21
17....	20	....	....	....	....	....	49	55	97	22	23	19
18....	18	....	....	....	....	....	49	65	76	20	21	18
19....	19	....	....	....	....	....	43	120	57	17	18	16
20....	20	....	....	....	....	....	46	156	47	17	21	16
21....	20	....	....	....	....	....	49	128	44	15	24	15
22....	20	....	....	....	....	....	57	110	43	13	24	16
23....	20	....	....	....	....	....	68	130	35	13	22	18
24....	20	....	....	....	....	....	75	130	35	13	20	20
25....	20	....	....	....	....	....	75	118	42	14	18	19
26....	20	....	....	....	....	....	62	68	42	16	17	20
27....	20	....	....	....	....	....	56	49	37	20	16	19
28....	20	....	....	....	....	....	52	53	31	26	16	20
29....	20	....	....	....	....	....	38	100	35	26	16	22
30....	20	Nov. 1	....	....	....	....	51	214	37	43	17	18
31....	20	to 5	....	....	....	....	....	197	....	51	18	....
Total	770	112	....	....	....	....	935	2697	2743	710	907	563.2
Mean.	24.8	22.4	....	....	....	....	55.0	87.0	91.4	22.9	29.3	18.8
Max..	33	26	....	....	....	....	75	214	234	51	60	42
Min...	18	21	....	....	....	....	38	32	31	13	16	8.6
Acre-ft.	1530	222	....	....	....	....	1850	5350	5440	1410	1800	1120

Total run-off for water year 1938-39=18,722 acre-feet.

Discharge of Roaring Fork Near Walden, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	24	14	....	....	....	72	13	250	34	50	16
2....	18	23	....	....	....	....	76	11	258	38	44	15
3....	19	20	....	....	....	....	64	8.1	273	44	42	14
4....	22	18	....	....	....	....	56	7.0	240	44	39	14
5....	27	17	....	....	....	....	52	7.0	226	32	38	14
6....	29	18	....	....	....	....	48	11	305	28	36	14
7....	26	19	....	....	....	....	43	14	226	25	38	13
8....	25	21	....	....	....	....	39	18	124	23	36	13
9....	31	21	....	....	....	....	42	24	92	21	34	15
10....	32	17	....	....	....	....	42	35	74	19	32	23
11....	30	16	....	....	....	....	35	80	54	20	33	18
12....	28	16	....	....	....	....	26	122	75	20	29	16
13....	26	19	....	....	....	....	31	161	119	19	28	14
14....	26	19	....	....	....	....	53	97	174	18	27	14
15....	26	16	....	....	....	....	68	48	167	19	26	14
16....	25	15	....	....	....	....	48	81	178	19	27	14
17....	24	14	....	....	....	....	24	123	174	20	26	14
18....	23	15	....	....	....	....	28	83	142	28	24	14
19....	21	14	....	....	....	....	34	55	114	42	21	14
20....	20	14	....	....	....	....	38	49	125	36	21	15
21....	20	14	....	....	....	....	36	138	305	34	23	15
22....	21	15	....	....	....	....	40	64	198	32	18	17
23....	21	15	....	....	....	....	37	20	132	32	19	15
24....	20	19	....	....	....	....	46	16	95	31	21	16
25....	19	18	....	....	....	....	53	14	69	36	25	15
26....	19	16	....	....	....	....	40	27	50	35	25	16
27....	19	12	....	....	....	....	30	123	44	39	27	18
28....	19	12	....	....	....	....	32	149	31	49	20	17
29....	21	12	....	....	....	....	24	158	28	57	18	20
30....	21	13	....	....	....	....	19	147	29	62	18	21
31....	23	....	....	....	....	....	....	197	....	56	17	....
Total	719	502	....	....	....	....	1276	2100.1	4371	1012	882	468
Mean.	23.2	16.7	....	....	....	....	42.5	67.7	146	32.6	28.5	15.6
Max..	32	24	....	....	....	....	76	197	305	62	50	23
Min..	18	12	....	....	....	....	19	7.0	28	18	17	13
Acre-ft.	1430	996	....	....	....	....	2530	4170	8670	2010	1750	928

Total run-off for period=22,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River Near Walden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	55	48	....	....	....	....	....	735	726	90	73	19
2....	55	55	....	....	....	....	....	758	744	83	78	19
3....	54	56	....	....	....	....	....	816	539	70	67	14
4....	56	55	....	....	....	....	....	843	456	62	64	12
5....	59	....	....	....	....	....	....	776	587	56	58	12
6....	63	....	....	....	....	....	....	758	627	50	54	12
7....	64	....	....	....	....	....	....	676	476	44	74	18
8....	67	....	....	....	....	....	....	497	387	44	58	45
9....	67	....	....	....	....	....	....	369	344	43	50	38
10....	67	....	....	....	....	....	....	372	387	39	43	43
11....	66	....	....	....	....	....	....	460	302	39	40	35
12....	64	....	....	....	....	....	April 14	436	251	38	39	48
13....	62	....	....	....	....	....	to 30	398	256	37	36	58
14....	59	....	....	....	....	....	308	283	311	37	35	45
15....	58	....	....	....	....	....	292	289	351	36	32	36
16....	56	....	....	....	....	....	260	358	274	35	31	36
17....	51	....	....	....	....	....	220	413	229	34	28	32
18....	49	....	....	....	....	....	191	365	191	32	25	27
19....	51	....	....	....	....	....	198	485	164	29	22	23
20....	50	....	....	....	....	....	203	574	144	26	22	21
21....	49	....	....	....	....	....	213	556	135	23	22	19
22....	49	....	....	....	....	....	274	497	137	22	22	19
23....	48	....	....	....	....	....	394	493	128	22	19	23
24....	49	....	....	....	....	....	424	518	113	19	18	28
25....	49	....	....	....	....	....	424	518	114	19	18	29
26....	48	....	....	....	....	....	383	413	116	20	19	30
27....	48	....	....	....	....	....	376	327	113	26	18	29
28....	46	....	....	....	....	....	448	305	97	31	19	31
29....	45	....	....	....	....	....	543	390	90	32	19	35
30....	45	Nov. 1	....	....	....	....	654	587	97	48	20	32
31....	45	to 4	....	....	....	....	....	672	....	58	20	....
Total	1694	214	....	....	....	....	5805	15937	8886	1244	1143	868
Mean.	54.6	53.5	....	....	....	....	341	514	296	40.1	36.9	28.9
Max..	67	56	....	....	....	....	654	843	744	90	78	58
Min...	45	48	....	....	....	....	191	283	90	19	18	12
Acre-ft.	3360	424	....	....	....	....	11510	31610	17630	2470	2270	1720

Total run-off for water year 1938-39=70,994 acre-feet.

Discharge of North Platte River Near Walden, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	35	56	....	....	....	....	250	152	726	95	62	25
2....	34	56	....	....	....	....	270	126	748	98	56	22
3....	32	56	....	....	....	....	220	140	780	106	55	20
4....	34	51	....	....	....	....	190	196	753	119	51	20
5 ...	44	50	....	....	....	....	180	268	744	102	49	19
6....	48	54	....	....	....	....	170	292	816	86	45	18
7....	42	55	....	....	....	....	150	305	834	71	48	18
8....	42	55	....	....	....	....	133	292	506	63	45	17
9....	54	54	....	....	....	....	150	271	417	55	43	19
10....	56	46	....	....	....	....	156	308	358	49	42	32
11....	53	46	....	....	....	....	137	351	286	49	45	26
12....	50	52	....	....	....	....	121	448	280	48	37	22
13....	51	54	....	....	....	....	118	609	338	43	34	22
14....	49	54	....	....	....	....	133	690	448	38	32	22
15....	48	56	....	....	....	....	182	489	476	39	33	21
16....	48	50	....	....	....	....	206	448	464	37	34	20
17....	46	46	....	....	....	....	175	582	468	39	32	19
18....	45	48	....	....	....	....	146	600	413	50	29	20
19....	45	53	....	....	....	....	154	432	327	66	25	21
20....	46	51	....	....	....	....	180	380	305	63	25	24
21....	45	49	....	....	....	....	196	663	489	58	26	27
22....	44	40	....	....	....	....	206	681	432	54	24	32
23....	46	38	....	....	....	....	173	372	314	51	22	31
24....	45	38	....	....	....	....	162	280	229	49	27	34
25....	43	38	....	....	....	....	218	251	180	53	30	34
26....	43	38	....	....	....	....	283	295	142	49	34	35
27....	43	39	....	....	....	....	274	582	129	50	36	36
28....	40	39	....	....	....	....	286	726	108	60	31	34
29....	54	38	....	....	....	....	245	704	95	67	29	37
30....	48	39	....	....	....	....	198	618	89	73	29	43
31....	56	....	....	....	....	....	....	618	....	67	26	....
Total	1409	1439	....	....	....	....	5662	13169	12694	1947	1136	770
Mean.	45.5	48.0	....	....	....	....	189	425	423	62.8	36.6	25.7
Max..	56	56	....	....	....	....	286	726	834	119	62	43
Min...	32	38	....	....	....	....	118	126	89	37	22	17
Acre-ft.	2790	2850	....	....	....	....	11230	26120	25180	3860	2250	1530

Total run-off for period=75.810 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River Near Northgate, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	150	141	145	114	89	80	620	1190	1500	194	190	51
2....	144	166	149	110	86	82	665	1200	1670	194	242	51
3....	147	173	140	107	82	80	942	1240	1460	180	213	45
4....	147	173	140	106	80	82	986	1310	1100	156	180	32
5....	153	166	130	108	74	83	1080	1210	942	147	159	26
6....	170	93	138	105	78	81	865	1140	1040	129	150	29
7....	176	82	140	102	82	81	740	1100	975	116	163	38
8....	180	110	140	95	84	84	620	898	843	110	176	74
9....	183	160	139	100	82	86	596	692	740	105	150	110
10....	187	166	140	98	88	92	612	556	800	98	135	98
11....	187	150	138	100	87	100	533	596	760	89	123	98
12....	173	123	135	103	85	95	512	596	588	87	118	89
13....	166	110	127	95	83	100	540	588	498	87	110	103
14....	156	110	134	91	82	110	638	533	491	76	105	113
15....	150	116	139	90	86	105	720	458	526	85	100	103
16....	141	111	140	93	85	110	730	498	491	91	93	89
17....	144	111	132	90	85	130	701	580	407	103	91	89
18....	147	111	140	91	79	150	647	612	369	89	85	82
19....	150	122	132	96	79	170	464	638	339	85	78	70
20....	147	130	140	94	84	205	477	730	320	82	74	68
21....	141	130	132	96	80	250	470	832	288	74	72	66
22....	138	100	130	86	81	300	526	887	284	68	72	66
23....	135	108	124	88	79	400	740	832	275	64	66	70
24....	138	116	121	92	78	490	975	942	258	64	62	74
25....	132	112	120	95	82	640	860	1060	246	62	54	89
26....	132	106	110	90	80	910	800	1050	250	60	53	91
27....	138	105	100	88	79	1100	825	920	242	66	51	85
28....	138	122	110	90	80	1200	975	770	219	82	54	87
29....	138	130	114	92	....	1000	1040	701	201	108	51	93
30....	135	138	110	92	....	750	1110	843	190	132	51	103
31....	132	....	110	90	....	580	....	1240	....	166	53	....
Total	4695	3791	4039	2987	2299	9726	22009	26442	18312	3249	3374	2282
Mean.	151	126	130	96.4	82.1	314	734	853	610	105	109	76.1
Max..	187	173	149	114	89	1200	1110	1310	1670	194	242	113
Min...	132	82	100	86	74	80	464	458	190	60	51	26
Acre-ft.	9310	7520	8010	5920	4560	19290	43650	52450	36320	6440	6690	4530

Total run-off for water year 1938-39=204,700 acre-feet.

Discharge of North Platte River Near Northgate, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	98	132	110	90	62	86	560	301	931	250	126	76
2....	93	132	115	86	62	84	620	246	1010	339	113	68
3....	87	132	120	78	62	88	470	219	1060	324	103	60
4....	87	129	120	76	62	92	407	219	1120	396	100	56
5....	91	129	120	74	62	88	380	258	1120	348	91	51
6....	105	126	130	72	62	86	380	306	1140	306	89	51
7....	105	135	120	66	64	90	363	324	1560	262	89	51
8....	105	135	120	58	64	90	334	324	1160	240	91	49
9....	116	129	130	60	66	90	315	301	854	220	91	45
10....	135	110	130	66	66	90	310	301	701	200	89	64
11....	144	91	130	64	64	88	297	334	588	170	91	85
12....	144	100	120	62	60	86	266	374	477	150	93	80
13....	141	132	110	62	62	82	258	512	464	132	82	68
14....	138	141	105	62	66	90	288	750	519	121	74	64
15....	132	116	120	62	72	94	374	647	629	113	70	64
16....	129	114	110	64	70	82	453	526	674	110	70	64
17....	126	114	115	68	70	94	447	588	610	108	70	62
18....	123	110	90	66	66	82	358	720	550	118	66	60
19....	121	105	96	62	66	86	334	572	490	156	62	58
20....	116	110	98	60	66	92	353	498	540	183	58	64
21....	116	105	86	62	68	110	358	720	710	173	60	76
22....	116	105	90	62	68	150	353	1190	670	147	64	87
23....	116	110	90	60	66	190	334	740	588	141	66	93
24....	116	115	96	60	68	240	279	491	477	126	66	89
25....	113	110	86	62	70	280	344	401	374	118	82	87
26....	108	100	82	64	74	320	412	396	310	113	91	89
27....	105	105	78	66	78	398	380	540	266	105	100	87
28....	108	105	80	68	84	440	396	986	238	103	113	87
29....	121	115	84	68	88	470	412	1050	201	116	108	91
30....	123	110	86	68	....	480	358	1010	183	126	98	108
31....	129	....	88	64	....	510	....	898	....	129	85	....
Total	3607	3502	3255	2062	1958	5348	11193	16742	20214	5643	2651	2134
Mean.	116	117	105	66.5	67.5	173	373	540	674	182	85.5	71.1
Max..	144	141	130	90	88	510	620	1190	1560	396	126	108
Min...	87	91	78	58	60	82	258	219	183	103	58	45
Acre-ft.	7150	6950	6460	4090	3880	10610	22200	33210	40090	11190	5260	4230

Total run-off for water year 1939-40=155,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of North Platte River Near Walden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	39	40	....	....	....	....	....	127	215	27	147	30
2....	39	48	....	....	....	....	....	134	162	32	132	26
3....	39	44	....	....	....	....	....	152	92	28	110	16
4....	37	41	....	....	....	....	....	144	71	22	84	18
5....	37	....	....	....	....	....	....	107	82	22	77	23
6....	43	....	....	....	....	....	....	84	107	20	75	21
7....	47	....	....	....	....	....	....	56	104	18	104	61
8....	44	....	....	....	....	....	....	44	87	16	94	80
9....	42	....	....	....	....	....	....	31	77	16	69	59
10....	41	....	....	....	....	....	....	14	150	16	61	47
11....	40	....	....	....	....	....	....	9.7	69	12	63	44
12....	38	....	....	....	....	....	....	8.1	47	12	57	49
13....	37	....	....	....	....	....	....	13	33	11	54	49
14....	37	....	....	....	....	....	....	26	51	22	51	47
15....	32	....	....	....	....	....	....	9.1	82	32	50	42
16....	32	....	....	....	....	....	April 18	6.9	56	36	49	41
17....	32	....	....	....	....	....	to 30	9.7	44	41	46	43
18....	32	....	....	....	....	....	59	9.4	50	29	44	43
19....	33	....	....	....	....	....	59	13	49	27	42	38
20....	29	....	....	....	....	....	61	18	44	32	42	37
21....	32	....	....	....	....	....	69	31	39	25	43	35
22....	32	....	....	....	....	....	107	30	40	28	39	36
23....	33	....	....	....	....	....	132	24	29	33	35	39
24....	33	....	....	....	....	....	110	29	26	34	35	42
25....	34	....	....	....	....	....	97	53	30	32	32	42
26....	34	....	....	....	....	....	90	43	37	37	32	41
27....	36	....	....	....	....	....	84	25	36	49	32	44
28....	39	....	....	....	....	....	92	21	27	63	33	42
29....	38	....	....	....	....	....	104	22	25	80	33	42
30....	37	Nov. 1	....	....	....	....	117	56	25	127	32	43
31....	37	to 4	....	....	....	....	....	154	....	124	31	....
Total	1135	173	....	....	....	....	1181	1503.8	1986	1103	1828	1220
Mean.	36.6	43.2	....	....	....	....	90.8	48.5	66.2	35.6	59.0	40.7
Max..	47	48	....	....	....	....	132	154	215	127	147	80
Min...	29	40	....	....	....	....	59	6.8	25	11	31	16
Acre-ft.	2250	343	....	....	....	....	2340	2980	3940	2190	3630	2420

Total run-off for water year 1938-39=20,093 acre-feet.

Discharge of North Fork North Platte River Near Walden, Colorado, for Year Ending Sept. 30, 1940

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	39	66	....	....	....	....	110	22	72	132	39	33
2....	44	66	....	....	....	....	120	15	96	96	35	31
3....	46	58	....	....	....	....	110	12	116	132	34	30
4....	52	58	....	....	....	....	100	4.8	118	132	32	33
5....	66	58	....	....	....	....	90	4.2	116	64	34	33
6....	60	74	....	....	....	....	85	3.8	132	41	44	28
7....	60	76	....	....	....	....	80	3.5	213	37	44	36
8....	70	64	....	....	....	....	74	2.8	76	36	44	24
9....	85	64	....	....	....	....	60	6.3	64	24	44	31
10....	81	58	....	....	....	....	72	4.5	58	20	44	41
11....	79	....	....	....	....	....	66	5.1	49	18	44	38
12....	76	....	....	....	....	....	56	7.5	33	21	44	33
13....	74	....	....	....	....	....	70	41	37	22	42	30
14....	72	....	....	....	....	....	147	22	52	20	40	27
15....	72	....	....	....	....	....	182	12	85	20	38	27
16....	68	....	....	....	....	....	176	18	120	24	36	25
17....	62	....	....	....	....	....	116	32	99	21	36	24
18....	60	....	....	....	....	....	94	29	96	39	34	25
19....	58	....	....	....	....	....	140	27	76	87	34	26
20....	56	....	....	....	....	....	147	26	72	81	34	28
21....	56	....	....	....	....	....	81	223	176	68	36	30
22....	58	....	....	....	....	....	64	213	179	52	37	34
23....	58	....	....	....	....	....	38	66	125	51	38	33
24....	56	....	....	....	....	....	44	33	68	49	42	30
25....	52	....	....	....	....	....	171	22	48	49	51	33
26....	52	....	....	....	....	....	137	25	38	46	52	32
27....	56	....	....	....	....	....	66	48	37	48	58	33
28....	56	....	....	....	....	....	42	116	33	49	49	33
29....	56	....	....	....	....	....	42	99	27	49	37	34
30....	66	....	....	....	....	....	44	74	35	49	36	44
31....	68	....	....	....	....	....	....	79	....	46	36	....
Total	1914	642	....	....	....	....	2824	1296.5	2546	1623	1248	939
Mean.	61.7	64.2	....	....	....	....	94.1	41.8	84.9	52.4	40.3	31.3
Max..	85	76	....	....	....	....	182	223	213	132	58	44
Min...	39	58	....	....	....	....	38	2.8	27	18	32	24
Acre-ft.	3800	1270	....	....	....	....	5600	2570	5050	3220	2480	1860

Total run-off for period=25,850 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Willow Creek Near Rand, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.3	5.0	....	....	....	....	....	24	91	11	3.6	2.8
2....	4.3	5.5	....	....	....	....	....	25	87	8.4	3.4	2.8
3....	4.3	5.8	....	....	....	....	....	28	46	6.8	3.0	1.8
4....	3.8	6.0	....	....	....	....	....	29	34	5.0	3.0	1.6
5....	4.1	6.3	....	....	....	....	....	20	39	4.4	2.6	1.8
6....	4.6	6.3	....	....	....	....	....	20	32	3.9	2.8	2.2
7....	4.6	....	....	....	....	....	....	24	26	3.7	8.7	3.8
8....	4.1	....	....	....	....	....	....	23	24	3.5	7.2	4.3
9....	5.0	....	....	....	....	....	....	17	22	3.5	3.8	3.6
10....	5.0	....	....	....	....	....	....	16	31	3.4	3.6	3.4
11....	4.6	....	....	....	....	....	....	19	19	3.2	3.2	3.4
12....	4.6	....	....	....	....	....	....	27	16	5.0	2.8	3.2
13....	4.8	....	....	....	....	....	....	37	16	3.4	2.2	2.8
14....	5.3	....	....	....	....	....	....	23	16	1.6	2.2	2.2
15....	4.8	....	....	....	....	....	April 17	18	16	1.3	1.8	1.8
16....	5.0	....	....	....	....	....	to 30	24	14	1.8	1.5	1.6
17....	5.0	....	....	....	....	....	16	32	11	2.6	1.4	1.6
18....	5.3	....	....	....	....	....	20	28	12	2.4	1.4	1.6
19....	5.5	....	....	....	....	....	20	34	13	0.9	1.3	1.5
20....	5.8	....	....	....	....	....	18	49	11	0.1	1.2	1.6
21....	5.3	....	....	....	....	....	18	58	10	0.8	1.3	1.6
22....	5.8	....	....	....	....	....	34	56	9.0	7.8	1.3	2.0
23....	4.6	....	....	....	....	....	42	65	8.0	4.6	1.2	2.4
24....	4.3	....	....	....	....	....	33	67	7.6	4.1	1.4	2.6
25....	5.5	....	....	....	....	....	30	89	8.5	12	1.5	2.8
26....	5.3	....	....	....	....	....	27	72	7.8	6.3	1.5	3.0
27....	5.5	....	....	....	....	....	18	47	7.4	1.1	1.5	2.6
28....	5.5	....	....	....	....	....	22	34	7.2	1.2	1.5	2.6
29....	5.0	....	....	....	....	....	22	30	7.6	1.3	2.0	3.2
30....	4.6	Nov. 1	....	....	....	....	24	31	8.4	1.4	2.6	4.1
31....	5.3	to 6	....	....	....	....	....	65	....	2.6	3.2	....
Total	151.5	34.9	....	....	....	....	344	1131	657.5	119.1	79.7	76.3
Mean.	4.89	5.82	....	....	....	....	24.6	36.5	21.9	3.84	2.57	2.54
Max..	5.8	6.3	....	....	....	....	42	89	91	12	8.7	4.3
Min..	3.8	5.0	....	....	....	....	16	16	7.2	0.1	1.2	1.5
Acre-ft.	300	69	....	....	....	....	682	2240	1300	236	158	151

Total run-off for water year 1938-39=5,136 acre-feet.

Discharge of Willow Creek Near Rand, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.1	3.6	....	....	....	....	11	5.8	9.9	3.8	1.5	1.0
2....	4.1	3.4	....	....	....	....	10	6.5	9.9	5.0	1.3	.8
3....	3.6	3.2	....	....	....	....	9.5	4.0	14	4.8	1.4	.9
4....	3.6	3.2	....	....	....	....	9.0	2.4	19	3.6	1.2	1.1
5....	3.4	3.2	....	....	....	....	8.5	2.3	12	3.2	1.1	1.0
6....	2.6	3.2	....	....	....	....	8.0	2.0	28	4.6	1.1	.9
7....	1.8	2.6	....	....	....	....	7.5	1.5	64	2.6	1.3	.8
8....	2.0	1.3	....	....	....	....	7.6	1.7	16	1.6	1.4	1.0
9....	2.4	1.3	....	....	....	....	7.8	2.0	10	1.0	1.4	1.1
10....	2.6	1.3	....	....	....	....	8.5	2.2	10	.7	1.4	1.0
11....	2.6	1.3	....	....	....	....	8.0	1.9	9.0	.6	1.3	1.0
12....	2.6	....	....	....	....	....	7.0	1.9	8.1	.5	1.1	1.0
13....	2.2	....	....	....	....	....	6.0	4.0	7.2	.5	1.0	.6
14....	1.6	....	....	....	....	....	5.0	4.2	6.5	.5	1.2	.6
15....	1.6	....	....	....	....	....	10	2.9	17	.4	1.1	.5
16....	1.6	....	....	....	....	....	27	3.2	24	.3	1.1	.5
17....	1.6	....	....	....	....	....	22	4.0	12	4.6	1.2	.6
18....	1.6	....	....	....	....	....	22	5.0	5.5	9.9	1.2	.9
19....	1.8	....	....	....	....	....	24	3.6	3.4	8.4	1.1	1.0
20....	2.0	....	....	....	....	....	23	4.2	2.6	4.0	1.2	1.1
21....	2.0	....	....	....	....	....	16	33	2.6	2.4	1.3	1.2
22....	2.0	....	....	....	....	....	8.7	22	2.9	2.2	1.5	1.3
23....	2.0	....	....	....	....	....	4.0	7.8	3.2	1.5	1.5	1.3
24....	1.6	....	....	....	....	....	3.0	6.8	2.7	1.6	1.5	1.3
25....	2.4	....	....	....	....	....	4.6	6.0	2.3	1.6	2.7	1.3
26....	2.2	....	....	....	....	....	3.4	7.2	1.9	1.4	3.2	1.3
27....	2.0	....	....	....	....	....	2.3	24	1.4	1.3	3.4	1.3
28....	1.8	....	....	....	....	....	3.6	28	1.1	1.2	3.2	1.4
29....	1.8	....	....	....	....	....	4.0	14	.9	1.4	2.0	1.5
30....	2.0	....	....	....	....	....	3.6	16	1.2	1.4	1.5	1.4
31....	3.0	....	....	....	....	....	....	11	....	1.5	1.2	....
Total	72.2	27.6	....	....	....	....	294.6	241.1	308.3	78.1	47.6	30.7
Mean.	2.33	2.51	....	....	....	....	9.82	7.78	10.3	2.52	1.54	1.02
Max..	4.1	3.6	....	....	....	....	27	33	64	9.9	3.4	1.5
Min...	1.6	1.3	....	....	....	....	2.3	1.5	.9	.3	1.0	.5
Acre-ft.	143	55	....	....	....	....	584	478	612	155	94	61

Total run-off for period=2,180 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Illinois Creek Near Rand, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	10	6.5	....	....	....	....	....	160	251	46	10	3.7
2....	9.5	7.0	....	....	....	....	....	160	228	38	8.0	3.7
3....	10	8.0	....	....	....	....	....	213	179	30	6.0	3.2
4....	9.5	....	....	....	....	....	....	210	190	21	5.5	3.0
5....	9.5	....	....	....	....	....	....	204	238	18	4.8	3.2
6....	9.5	....	....	....	....	....	....	233	257	17	5.0	3.9
7....	9.5	....	....	....	....	....	....	190	246	17	11	4.6
8....	9.5	....	....	....	....	....	....	148	213	16	12	4.8
9....	10	....	....	....	....	....	....	160	194	16	10	4.1
10....	11	....	....	....	....	....	....	154	160	17	9.0	3.7
11....	9.5	....	....	....	....	....	....	183	118	16	7.5	3.2
12....	9.5	....	....	....	....	....	....	175	87	15	6.5	3.7
13....	10	....	....	....	....	....	....	130	82	14	5.5	3.7
14....	10	....	....	....	....	....	....	136	91	14	5.0	3.5
15....	8.5	....	....	....	....	....	April 17	106	118	13	4.6	3.2
16....	8.5	....	....	....	....	....	to 30	207	100	11	4.6	3.2
17....	8.5	....	....	....	....	....	16	201	82	10	4.6	3.2
18....	8.5	....	....	....	....	....	20	204	82	11	4.1	3.0
19....	8.5	....	....	....	....	....	20	231	91	10	3.7	3.2
20....	9.0	....	....	....	....	....	22	259	69	9.5	3.2	3.2
21....	8.5	....	....	....	....	....	27	244	60	9.0	3.5	3.0
22....	8.0	....	....	....	....	....	69	246	54	8.5	3.0	3.0
23....	7.5	....	....	....	....	....	164	262	41	7.0	2.6	3.2
24....	7.0	....	....	....	....	....	106	241	41	7.0	2.1	4.6
25....	6.0	....	....	....	....	....	100	236	46	6.5	1.7	5.5
26....	7.0	....	....	....	....	....	91	187	46	6.0	1.4	5.0
27....	7.5	....	....	....	....	....	118	136	36	8.0	1.9	4.8
28....	7.5	....	....	....	....	....	175	87	34	9.5	2.6	6.5
29....	7.0	....	....	....	....	....	222	96	34	8.5	3.5	6.5
30....	6.5	Nov. 1	....	....	....	....	154	179	36	8.0	4.1	5.5
31....	6.5	to 3	....	....	....	....	....	210	....	9.0	4.1	....
Total	267.5	21.5	....	....	....	....	1304	5788	3504	446.5	161.1	118.6
Mean.	8.63	7.17	....	....	....	....	93.1	187	117	14.4	5.2	3.95
Max..	11	8.0	....	....	....	....	222	262	257	46	12	6.5
Min...	6.0	6.5	....	....	....	....	16	87	34	6.0	1.4	3.0
Acre-ft.	531	43	....	....	....	....	2590	11480	6950	886	320	235

Total run-off for water year 1938-39=23,035 acre-feet.

Discharge of Illinois Creek Near Rand, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.6	5.0	....	....	....	....	15	41	183	51	8.0	5.4
2....	4.3	5.0	....	....	....	....	13	60	190	78	6.5	4.2
3....	4.1	4.8	....	....	....	....	12	65	190	54	6.0	5.2
4....	4.3	4.3	....	....	....	....	10	78	171	44	5.0	4.6
5....	4.8	4.3	....	....	....	....	9.5	91	160	36	4.6	4.1
6....	4.8	5.0	....	....	....	....	8.5	112	160	48	4.3	3.7
7....	4.6	5.5	....	....	....	....	8.0	124	106	30	4.3	3.2
8....	4.6	5.5	....	....	....	....	7.6	112	78	28	4.6	2.4
9....	8.0	4.6	....	....	....	....	8.0	91	68	25	4.8	2.6
10....	8.0	5.0	....	....	....	....	8.5	74	41	23	4.6	2.8
11....	7.0	4.6	....	....	....	....	8.0	130	50	23	4.1	2.6
12....	6.0	....	....	....	....	....	7.5	142	56	20	3.9	2.4
13....	6.0	....	....	....	....	....	6.5	160	68	16	3.2	2.6
14....	5.5	....	....	....	....	....	5.6	96	96	14	3.0	2.8
15....	4.8	....	....	....	....	....	27	87	148	13	2.8	2.8
16....	4.8	....	....	....	....	....	38	96	142	14	2.8	2.6
17....	4.8	....	....	....	....	....	25	112	124	21	2.8	2.4
18....	4.8	....	....	....	....	....	25	74	106	38	2.8	2.6
19....	4.8	....	....	....	....	....	46	54	87	56	2.4	3.0
20....	4.8	....	....	....	....	....	82	65	82	24	2.8	3.2
21....	4.6	....	....	....	....	....	69	112	69	16	3.2	3.9
22....	4.6	....	....	....	....	....	65	78	74	14	3.2	4.5
23....	4.3	....	....	....	....	....	34	46	82	14	3.0	5.0
24....	4.3	....	....	....	....	....	60	34	60	14	6.0	5.0
25....	4.3	....	....	....	....	....	69	34	51	14	14	4.8
26....	4.6	....	....	....	....	....	78	48	54	12	16	5.5
27....	4.8	....	....	....	....	....	82	142	48	10	16	7.5
28....	4.6	....	....	....	....	....	44	154	41	11	10	8.0
29....	4.3	....	....	....	....	....	41	112	34	11	8.0	10
30....	4.3	....	....	....	....	....	25	112	34	9	6.6	9.0
31....	4.3	....	....	....	....	....	....	154	....	10	6.0	....
Total	154.4	53.6	....	....	....	....	937.7	2890	2853	791	175.3	128.4
Mean.	4.98	4.87	....	....	....	....	31.3	93.2	95.1	25.5	5.65	4.28
Max..	8.0	5.5	....	....	....	....	82	160	190	78	16	10
Min...	4.1	4.3	....	....	....	....	5.6	34	34	9.0	2.4	2.4
Acre-ft.	306	106	....	....	....	....	1860	5730	5660	1570	348	255

Total run-off for period= 15,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Illinois Creek at Walden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.3	8.8	....	....	....	....	....	91	141	7.0	0.8	0
2....	5.0	10	....	....	....	....	....	81	206	6.6	1.2	0
3....	5.3	8.4	....	....	....	....	....	67	197	6.0	1.0	0
4....	5.3	7.0	....	....	....	....	....	80	128	6.0	0.7	0
5....	6.0	7.5	....	....	....	....	....	82	87	6.0	0.6	0
6....	9.7	8.4	....	....	....	....	....	77	70	6.3	0.8	0
7....	9.7	5.6	....	....	....	....	....	88	75	5.6	2.1	0.4
8....	8.4	5.0	....	....	....	....	....	82	73	4.0	2.7	0.4
9....	8.8	5.3	....	....	....	....	....	61	71	3.4	2.7	0.2
10....	12	5.3	....	....	....	....	....	35	75	3.0	3.7	0.2
11....	14	....	....	....	....	....	....	27	73	2.3	3.7	0.2
12....	14	....	....	....	....	....	....	16	62	1.9	2.5	0.2
13....	13	....	....	....	....	....	....	15	44	2.3	2.1	0.2
14....	10	....	....	....	....	....	....	15	33	1.9	1.4	0.1
15....	8.8	....	....	....	....	....	....	19	24	1.9	0.8	0
16....	8.8	....	....	....	....	....	April 18	22	18	1.6	0.5	0.1
17....	8.8	....	....	....	....	....	to 30	72	15	1.4	0.4	0.1
18....	8.8	....	....	....	....	....	65	101	14	1.2	0.1	0
19....	8.8	....	....	....	....	....	63	73	15	1.0	0.1	0.1
20....	7.9	....	....	....	....	....	70	67	16	0.8	0.1	0
21....	6.3	....	....	....	....	....	70	101	13	0.7	0	0.1
22....	5.6	....	....	....	....	....	84	124	12	0.6	0	0.1
23....	6.6	....	....	....	....	....	113	114	12	0.6	0	0.1
24....	7.5	....	....	....	....	....	120	131	12	0.7	0.1	0
25....	7.9	....	....	....	....	....	99	155	11	0.7	0	0
26....	7.9	....	....	....	....	....	72	176	11	0.7	0.1	0
27....	8.4	....	....	....	....	....	70	158	10	0.7	0	0
28....	7.9	....	....	....	....	....	67	120	8.8	0.6	0	0.2
29....	7.9	....	....	....	....	....	72	91	7.5	0.6	0.4	0.2
30....	7.5	Nov. 1	....	....	....	....	82	77	6.6	0.6	0.1	0.1
31....	7.9	to 10	....	....	....	....	....	83	....	0.7	0.1	....
Total	259.8	71.3	....	....	....	....	1047	2501	1540.9	77.4	28.8	3.0
Mean.	8.38	7.13	....	....	....	....	80.5	80.7	51.4	2.50	0.93	0.10
Max..	14	10	....	....	....	....	120	176	206	7.0	3.7	0.4
Min...	5.0	5.0	....	....	....	....	63	15	6.6	0.6	0	0
Acre-ft.	515	141	....	....	....	....	2080	4960	3060	154	57	6.0

Total run-off for water year 1938-39=10,973 acre-feet.

Discharge of Illinois Creek at Walden, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0.8	....	....	....	....	74	22	32	7.5	0.8	2.1
2....	0	.8	....	....	....	....	65	18	31	9.2	.8	1.0
3....	0	.9	....	....	....	....	60	13	37	9.7	.8	.4
4....	0	1.0	....	....	....	....	56	7.9	43	9.7	.7	.1
5....	.1	1.1	....	....	....	....	52	4.7	51	12	.6	0
6....	.1	1.2	....	....	....	....	45	4.0	66	13	.8	0
7....	.4	1.4	....	....	....	....	42	4.0	108	9.2	.7	0
8....	1.1	1.2	....	....	....	....	45	3.4	116	11	1.6	0
9....	2.3	1.1	....	....	....	....	37	3.2	86	10	1.2	0
10....	2.5	1.1	....	....	....	....	36	2.1	67	8.8	1.0	.1
11....	2.3	1.0	....	....	....	....	27	2.1	49	8.4	1.0	0
12....	2.1	1.0	....	....	....	....	24	1.6	37	8.4	.8	0
13....	1.6	.8	....	....	....	....	24	2.1	27	7.5	.8	0
14....	1.4	.8	....	....	....	....	23	3.0	23	6.6	.8	0
15....	1.1	.8	....	....	....	....	37	3.0	23	5.6	.7	0
16....	.8	.7	....	....	....	....	58	3.0	28	4.7	.7	0
17....	.8	.8	....	....	....	....	48	3.0	29	4.4	.5	0
18....	.8	1.0	....	....	....	....	36	3.2	31	5.6	.4	0
19....	.8	.8	....	....	....	....	31	3.4	31	5.3	.4	0
20....	.8	....	....	....	....	....	40	3.7	31	5.3	.5	.1
21....	.8	....	....	....	....	....	46	10	33	5.3	.4	1.4
22....	.8	....	....	....	....	....	39	12	30	5.6	.1	2.3
23....	.8	....	....	....	....	....	28	13	26	5.3	0	2.7
24....	.6	....	....	....	....	....	19	14	23	3.7	0	2.7
25....	.5	....	....	....	....	....	20	14	20	2.5	.4	3.0
26....	.5	....	....	....	....	....	16	14	15	2.1	.4	2.7
27....	.6	....	....	....	....	....	13	14	12	1.2	.2	2.5
28....	.6	....	....	....	....	....	22	27	9.7	2.7	.1	2.7
29....	.8	....	....	....	....	....	31	81	7.0	1.2	0	2.7
30....	.7	....	....	....	....	....	28	69	6.6	1.1	0	2.5
31....	.8	....	....	....	....	....	....	44	....	1.0	.1	....
Total	26.5	18.3	....	....	....	....	1122	422.4	1128.3	193.6	17.3	29.0
Mean.	.85	.96	....	....	....	....	37.4	13.6	37.6	6.25	.56	.97
Max..	2.5	1.4	....	....	....	....	74	81	116	13	1.6	3.0
Min...	0	.7	....	....	....	....	13	1.6	6.6	1.0	0	0
Acre-ft.	53	36	....	....	....	....	2230	838	2240	384	34	58

Total run-off for period=5,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River Near Lindland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	5.6	....	....	....	....	....	150	254	48	14	19
2....	18	5.6	....	....	....	....	....	172	223	70	13	19
3....	21	6.3	....	....	....	....	....	172	174	35	12	16
4....	19	6.3	....	....	....	....	....	146	205	28	9.9	15
5....	21	8.2	....	....	....	....	....	154	268	45	9.9	19
6....	21	....	....	....	....	....	....	162	249	70	11	19
7....	18	....	....	....	....	....	....	116	194	70	16	19
8....	23	....	....	....	....	....	....	128	160	66	15	19
9....	24	....	....	....	....	....	....	138	138	60	9.9	18
10....	18	....	....	....	....	....	....	154	104	57	9.9	17
11....	19	....	....	....	....	....	....	150	90	56	9.0	17
12....	19	....	....	....	....	....	....	130	81	57	8.2	17
13....	18	....	....	....	....	....	April 15	114	81	52	7.9	15
14....	18	....	....	....	....	....	to 30	120	100	26	6.3	14
15....	21	....	....	....	....	....	12	146	108	7.9	6.0	14
16....	18	....	....	....	....	....	8.2	185	92	6.7	7.5	15
17....	19	....	....	....	....	....	8.2	172	89	9.0	7.9	15
18....	19	....	....	....	....	....	13	185	73	27	6.0	11
19....	18	....	....	....	....	....	8.2	194	52	27	6.0	9.0
20....	17	....	....	....	....	....	8.2	207	73	23	6.7	9.0
21....	14	....	....	....	....	....	9.9	181	81	21	5.0	9.9
22....	7.9	....	....	....	....	....	21	198	68	21	5.6	9.9
23....	6.7	....	....	....	....	....	26	211	63	18	7.5	14
24....	6.3	....	....	....	....	....	23	203	63	17	7.5	18
25....	6.0	....	....	....	....	....	18	181	68	17	8.2	14
26....	7.1	....	....	....	....	....	19	148	48	21	8.2	14
27....	7.5	....	....	....	....	....	35	126	39	22	7.5	13
28....	7.9	....	....	....	....	....	60	126	37	19	9.9	16
29....	6.7	....	....	....	....	....	89	136	31	14	15	18
30....	6.7	Nov. 1	....	....	....	....	142	185	31	14	15	12
31....	6.3	to 5	....	....	....	....	....	205	....	13	21	....
Total	466.1	32.0	....	....	....	....	500.7	4995	3337	1037.6	302.5	454.8
Mean.	15.0	6.4	....	....	....	....	31.3	161	111	33.5	9.76	15.2
Max..	24	8.2	....	....	....	....	142	211	268	70	21	19
Min...	6.0	5.6	....	....	....	....	8.2	114	31	6.7	5.0	9.0
Acre-ft.	924	63	....	....	....	....	993	9910	6620	2060	600	902

Total run-off for water year 1938-39═22,072 acre-feet.

Discharge of Michigan River Near Lindland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.6	14	....	....	....	....	13	24	184	54	20	18
2....	10	14	....	....	....	....	12	32	186	76	19	17
3....	10	8.2	....	....	....	....	11	57	178	60	18	12
4....	12	7.6	....	....	....	....	11	82	154	42	15	17
5....	9.6	7.9	....	....	....	....	10	95	160	37	16	14
6....	11	8.9	....	....	....	....	9.5	113	150	32	18	13
7....	13	7.9	....	....	....	....	8.5	111	114	32	18	12
8....	16	7.2	....	....	....	....	7.8	92	90	30	18	8.9
9....	24	7.2	....	....	....	....	7.6	98	65	27	17	7.6
10....	19	7.2	....	....	....	....	7.9	105	52	24	14	8.2
11....	18	8.9	....	....	....	....	8.2	105	48	20	15	8.9
12....	19	7.6	....	....	....	....	7.0	122	57	17	12	8.2
13....	19	7.9	....	....	....	....	10	131	63	14	12	8.2
14....	18	9.6	....	....	....	....	17	98	94	12	11	8.2
15....	19	12	....	....	....	....	14	95	104	9.6	12	8.9
16....	15	....	....	....	....	....	23	113	132	12	12	6.9
17....	16	....	....	....	....	....	24	97	140	16	11	6.9
18....	16	....	....	....	....	....	22	100	129	24	12	7.2
19....	16	....	....	....	....	....	22	82	127	34	12	6.9
20....	15	....	....	....	....	....	33	84	118	22	12	7.6
21....	15	....	....	....	....	....	37	84	109	19	11	7.2
22....	14	....	....	....	....	....	32	66	97	22	12	7.2
23....	14	....	....	....	....	....	33	49	73	22	12	6.9
24....	16	....	....	....	....	....	25	48	60	20	14	5.3
25....	17	....	....	....	....	....	24	55	46	22	24	4.8
26....	18	....	....	....	....	....	26	66	51	20	32	4.8
27....	16	....	....	....	....	....	31	82	42	19	44	4.8
28....	11	....	....	....	....	....	27	73	45	19	39	4.8
29....	13	....	....	....	....	....	33	78	46	17	30	7.9
30....	10	....	....	....	....	....	31	89	52	17	26	9.6
31....	14	....	....	....	....	....	....	122	....	17	23	....
Total	463.2	136.1	....	....	....	....	577.5	2648	2966	808.6	561	268.9
Mean.	14.9	9.07	....	....	....	....	19.2	85.4	98.9	26.1	18.1	8.96
Max..	24	14	....	....	....	....	37	131	186	76	44	18
Min...	9.6	7.2	....	....	....	....	7.0	24	42	9.6	11	4.8
Acre-ft.	919	270	....	....	....	....	1150	5250	5880	1600	1110	533

Total run-off for period═16,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River at Haworth School Near Lindland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	22	18	....	....	....	....	....	225	326	95	14	25
2....	25	18	....	....	....	....	....	230	306	78	13	23
3....	27	18	....	....	....	....	....	251	222	49	13	18
4....	25	18	....	....	....	....	....	201	263	50	12	16
5....	24	18	....	....	....	....	....	215	338	59	12	20
6....	25	....	....	....	....	....	....	227	338	68	12	24
7....	24	....	....	....	....	....	....	172	278	63	16	22
8....	25	....	....	....	....	....	....	160	225	59	16	22
9....	29	....	....	....	....	....	....	187	203	54	13	19
10....	26	....	....	....	....	....	....	215	183	49	12	19
11....	24	....	....	....	....	....	....	220	164	46	13	19
12....	23	....	....	....	....	....	....	196	149	48	11	22
13....	22	....	....	....	....	....	April 15	164	136	41	11	19
14....	22	....	....	....	....	....	to 30	183	152	33	11	17
15....	22	....	....	....	....	....	60	198	158	20	11	15
16....	22	....	....	....	....	....	46	251	140	18	11	15
17....	24	....	....	....	....	....	50	244	134	16	11	16
18....	26	....	....	....	....	....	52	237	122	23	11	16
19....	25	....	....	....	....	....	50	249	104	22	9.2	14
20....	23	....	....	....	....	....	48	294	101	20	9.6	14
21....	24	....	....	....	....	....	58	297	126	18	9.6	14
22....	22	....	....	....	....	....	90	299	123	18	9.2	14
23....	21	....	....	....	....	....	106	330	105	18	10	15
24....	20	....	....	....	....	....	111	323	98	18	10	22
25....	20	....	....	....	....	....	110	314	102	17	11	19
26....	19	....	....	....	....	....	114	268	88	16	11	17
27....	19	....	....	....	....	....	134	227	69	18	12	16
28....	18	....	....	....	....	....	183	215	60	16	14	18
29....	18	....	....	....	....	....	194	213	60	14	24	23
30....	18	Nov. 1	....	....	....	....	213	261	81	13	21	16
31....	18	to 5	....	....	....	....	....	292	....	13	24	....
Total	702	90	....	....	....	....	1619	7358	4954	1090	397.6	549
Mean.	22.6	18	....	....	....	....	101	237	165	35.2	12.8	18.3
Max..	29	18	....	....	....	....	213	330	338	95	24	25
Min...	18	18	....	....	....	....	46	160	60	13	9.2	14
Acre-ft.	1390	179	....	....	....	....	3210	14590	9830	2160	789	1090

Total run-off for water year 1938-39=33,238 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River at Walden, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	21	....	....	....	....	....	182	258	28	12	20
2....	32	24	....	....	....	....	....	188	285	43	12	19
3....	31	26	....	....	....	....	....	171	242	42	9.5	16
4....	34	26	....	....	....	....	....	168	146	36	8.5	15
5....	35	26	....	....	....	....	....	144	130	29	7.5	14
6....	33	17	....	....	....	....	....	122	163	29	7.9	16
7....	33	15	....	....	....	....	....	115	193	36	8.8	26
8....	33	15	....	....	....	....	....	93	154	38	8.2	27
9....	35	15	....	....	....	....	....	82	122	32	7.9	22
10....	35	....	....	....	....	....	....	90	113	30	7.5	18
11....	34	....	....	....	....	....	....	90	101	27	6.7	16
12....	31	....	....	....	....	....	....	83	79	26	6.4	17
13....	29	....	....	....	....	....	....	80	51	27	6.1	16
14....	28	....	....	....	....	....	....	69	40	26	5.3	15
15....	28	....	....	....	....	....	April 17	65	32	23	4.1	12
16....	27	....	....	....	....	....	to 30	75	24	14	3.3	10
17....	28	....	....	....	....	....	77	136	21	13	2.7	9.8
18....	30	....	....	....	....	....	74	120	20	7.2	2.1	8.8
19....	31	....	....	....	....	....	83	101	25	5.6	1.7	8.8
20....	29	....	....	....	....	....	72	98	36	4.5	1.7	8.2
21....	28	....	....	....	....	....	69	122	58	4.1	1.6	7.9
22....	27	....	....	....	....	....	89	134	84	3.9	1.3	7.9
23....	23	....	....	....	....	....	132	136	72	3.9	1.2	9.2
24....	22	....	....	....	....	....	151	163	58	3.7	1.1	8.8
25....	21	....	....	....	....	....	146	179	60	3.5	3.1	9.5
26....	21	....	....	....	....	....	132	171	52	3.7	3.7	9.8
27....	21	....	....	....	....	....	128	140	33	4.1	3.7	9.5
28....	21	....	....	....	....	....	142	117	22	4.8	4.3	10
29....	21	....	....	....	....	....	158	103	18	7.5	9.8	13
30....	21	Nov. 1	....	....	....	....	171	108	17	8.5	16	14
31....	21	to 9	....	....	....	....	....	166	....	9.5	17	....
Total	877	185	....	....	....	....	1624	3811	2709	573.5	192.7	414.2
Mean.	28.3	20.6	....	....	....	....	116	123	90.3	18.5	6.22	13.8
Max..	35	26	....	....	....	....	171	188	285	43	17	27
Min...	21	15	....	....	....	....	69	65	17	3.5	1.1	7.9
Acre-ft.	1740	367	....	....	....	....	3220	7560	5370	1140	382	822

Total run-off for water year 1938-39=20,601 acre-feet.

Discharge of Michigan River at Walden, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	26	....	....	....	....	70	34	59	39	9.5	23
2....	12	25	....	....	....	....	76	35	106	55	8.5	15
3....	10	24	....	....	....	....	70	36	128	82	8.5	11
4....	11	23	....	....	....	....	64	31	144	65	8.5	11
5....	13	23	....	....	....	....	60	33	119	57	8.5	12
6....	12	24	....	....	....	....	58	37	136	47	7.5	12
7....	12	25	....	....	....	....	52	40	182	30	7.9	12
8....	14	25	....	....	....	....	46	40	132	28	6.9	9.5
9....	19	24	....	....	....	....	44	39	80	23	7.5	12
10....	22	19	....	....	....	....	42	35	61	18	7.5	14
11....	24	19	....	....	....	....	39	35	48	16	8.2	14
12....	26	19	....	....	....	....	35	48	39	14	7.2	12
13....	26	23	....	....	....	....	42	84	34	12	6.7	11
14....	25	25	....	....	....	....	50	100	28	10	6.1	10
15....	24	....	....	....	....	....	74	70	30	8.5	6.4	10
16....	24	....	....	....	....	....	83	46	58	7.9	6.7	10
17....	23	....	....	....	....	....	64	54	100	8.5	6.7	9.8
18....	23	....	....	....	....	....	58	61	103	13	6.1	10
19....	23	....	....	....	....	....	65	65	80	11	6.1	10
20....	23	....	....	....	....	....	72	68	72	12	7.9	12
21....	21	....	....	....	....	....	76	115	71	14	8.5	12
22....	21	....	....	....	....	....	71	106	64	12	7.9	12
23....	19	....	....	....	....	....	53	68	50	10	7.5	13
24....	19	....	....	....	....	....	50	44	39	12	7.5	13
25....	15	....	....	....	....	....	46	35	25	9.8	9.8	13
26....	12	....	....	....	....	....	36	39	22	8.5	16	12
27....	16	....	....	....	....	....	38	51	24	8.2	29	10
28....	26	....	....	....	....	....	54	110	24	9.2	37	9.8
29....	28	....	....	....	....	....	52	100	22	9.2	39	12
30....	24	....	....	....	....	....	42	71	23	9.2	33	16
31....	26	....	....	....	....	....	....	54	....	8.8	28	....
Total	607	324	....	....	....	....	1682	1784	2103	667.8	372.1	363.1
Mean.	19.6	23.1	....	....	....	....	56.1	57.5	70.1	21.5	12.0	12.1
Max..	28	26	....	....	....	....	83	115	182	82	39	23
Min...	10	19	....	....	....	....	35	31	22	7.9	6.1	9.5
Acre-ft.	1200	643	....	....	....	....	3340	3540	4170	1320	738	720

Total run-off for period=15,670 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River Near Cowdrey, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	38	31	....	....	....	....	....	225	230	1.4	0.7	4.2
2....	31	36	....	....	....	....	....	202	362	1.6	1.0	4.2
3....	35	38	....	....	....	....	....	181	390	2.5	1.4	3.8
4....	36	38	....	....	....	....	....	181	246	4.6	1.4	3.5
5....	41	38	....	....	....	....	....	168	149	3.2	1.3	3.8
6....	44	38	....	....	....	....	....	149	118	1.3	1.3	3.8
7....	43	....	....	....	....	....	....	139	144	1.0	1.6	4.2
8....	41	....	....	....	....	....	....	127	144	1.6	1.3	5.0
9....	43	....	....	....	....	....	....	94	115	1.3	1.3	5.5
10....	48	....	....	....	....	....	....	70	98	1.8	1.3	5.0
11....	48	....	....	....	....	....	....	32	85	2.4	1.0	4.6
12....	44	....	....	....	....	....	....	24	66	6.8	1.2	4.6
13....	41	....	....	....	....	....	....	22	39	5.0	1.0	4.2
14....	38	....	....	....	....	....	April 16	21	23	2.0	0.9	4.2
15....	35	....	....	....	....	....	to 30	18	11	1.6	0.8	3.5
16....	35	....	....	....	....	....	225	17	2.8	3.2	0.5	3.2
17....	36	....	....	....	....	....	217	35	1.9	2.0	0.3	2.6
18....	39	....	....	....	....	....	146	101	1.4	1.6	0.2	2.3
19....	41	....	....	....	....	....	149	87	1.4	1.3	0.1	1.7
20....	38	....	....	....	....	....	149	51	1.6	0.9	0	1.7
21....	35	....	....	....	....	....	137	66	1.8	0.4	0	1.7
22....	33	....	....	....	....	....	142	118	1.8	0.2	0	1.7
23....	32	....	....	....	....	....	204	118	7.6	0.2	0	2.1
24....	31	....	....	....	....	....	268	149	7.6	0.1	0	2.3
25....	30	....	....	....	....	....	268	199	5.3	0.1	0	2.3
26....	30	....	....	....	....	....	204	228	3.6	0.1	0	2.1
27....	30	....	....	....	....	....	181	217	2.2	0.1	0	1.9
28....	30	....	....	....	....	....	186	171	1.6	0	0	2.1
29....	30	....	....	....	....	....	199	122	1.4	0	0	2.3
30....	28	Nov. 1	....	....	....	....	212	94	1.6	0	0	2.9
31....	30	to 6	....	....	....	....	....	142	....	0.2	1.0	....
Total	1134	219	....	....	....	....	2887	3568	2263.6	48.5	19.6	97.0
Mean.	36.6	36.5	....	....	....	....	192	115	75.5	1.56	0.63	3.23
Max..	48	38	....	....	....	....	268	228	390	6.8	1.6	5.5
Min...	28	31	....	....	....	....	137	17	1.4	0	0	1.7
Acre-ft.	2250	434	....	....	....	....	5730	7080	4490	96	39	192

Total run-off for water year 1938-39=20,311 acre-feet.

Discharge of Michigan River Near Cowdrey, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.8	18	....	....	....	....	110	52	14	4.1	17	8.6
2....	2.8	18	....	....	....	....	115	41	7.6	4.6	16	6.1
3....	2.6	17	....	....	....	....	105	25	19	8.1	14	3.1
4....	2.4	19	....	....	....	....	95	14	40	14	9.4	1.8
5....	2.4	19	....	....	....	....	90	9.4	57	9.4	7.6	1.6
6....	2.4	19	....	....	....	....	88	6.1	62	12	7.1	1.6
7....	2.4	21	....	....	....	....	74	2.6	141	7.6	6.6	2.1
8....	2.4	20	....	....	....	....	67	1.4	141	5.1	6.1	1.8
9....	3.4	20	....	....	....	....	64	1.1	103	5.1	5.1	1.8
10....	5.1	15	....	....	....	....	60	1.0	66	7.1	5.1	2.8
11....	17	14	....	....	....	....	55	.8	22	8.6	5.1	2.8
12....	25	11	....	....	....	....	54	.8	7.1	8.1	4.6	2.6
13....	26	....	....	....	....	....	60	2.1	3.6	6.6	3.6	2.4
14....	25	....	....	....	....	....	69	11	1.8	5.6	3.1	3.6
15....	24	....	....	....	....	....	78	10	1.1	3.6	2.4	4.1
16....	23	....	....	....	....	....	96	6.1	1.1	3.4	2.4	4.1
17....	22	....	....	....	....	....	96	2.6	1.0	2.8	1.8	4.1
18....	22	....	....	....	....	....	79	1.6	4.1	4.6	1.8	3.6
19....	20	....	....	....	....	....	67	1.4	6.6	12	1.8	3.4
20....	16	....	....	....	....	....	69	1.6	8.6	14	1.6	4.1
21....	16	....	....	....	....	....	79	16	16	14	2.1	7.6
22....	15	....	....	....	....	....	78	35	14	19	3.4	11
23....	15	....	....	....	....	....	69	21	9.4	19	3.6	13
24....	15	....	....	....	....	....	57	8.6	6.6	17	3.4	13
25....	15	....	....	....	....	....	64	5.1	3.6	19	5.6	13
26....	12	....	....	....	....	....	51	4.1	3.1	14	6.1	13
27....	8.6	....	....	....	....	....	38	3.6	2.4	13	11	13
28....	8.6	....	....	....	....	....	52	8.1	1.4	13	22	11
29....	18	....	....	....	....	....	72	41	1.0	16	26	13
30....	15	....	....	....	....	....	64	60	1.6	20	29	17
31.. ..	17	....	....	....	....	....	....	34	....	17	14	....
Total	403.9	211	....	....	....	....	2215	428.3	766.7	327.4	248.4	190.7
Mean.	13.0	17.6	....	....	....	....	73.8	13.8	25.6	10.6	8.01	6.36
Max..	26	21	....	....	....	....	115	60	141	20	29	17
Min...	2.4	11	....	....	....	....	38	0.8	1.0	2.8	1.6	1.6
Acre-ft.	801	419	....	....	....	....	4390	850	1520	649	493	378

Total run-off for period=9,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Canadian River at Cowdrey, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	18	....	....	....	....	....	113	174	9.0	11	4.3
2....	14	23	....	....	....	....	....	110	158	7.4	14	6.4
3....	15	28	....	....	....	....	....	110	122	6.7	10	3.8
4....	15	28	....	....	....	....	....	119	84	6.4	7.0	3.0
5....	16	28	....	....	....	....	....	83	68	5.8	5.5	4.3
6....	17	....	....	....	....	....	....	70	65	4.9	4.6	5.2
7....	18	....	....	....	....	....	....	76	59	4.3	5.2	5.8
8....	18	....	....	....	....	....	....	74	58	4.3	5.8	6.1
9....	21	....	....	....	....	....	....	68	56	4.0	6.4	6.7
10....	23	....	....	....	....	....	....	58	63	3.5	7.0	6.4
11....	22	....	....	....	....	....	....	67	69	3.0	6.1	5.5
12....	21	....	....	....	....	....	....	61	55	2.2	5.2	4.6
13....	19	....	....	....	....	....	....	60	46	2.0	4.0	4.3
14....	18	....	....	....	....	....	....	55	36	2.2	3.8	4.0
15....	18	....	....	....	....	....	....	55	26	2.0	3.2	3.5
16....	18	....	....	....	....	....	April 18	64	20	2.2	2.5	2.8
17....	20	....	....	....	....	....	to 30	90	15	2.2	2.2	2.2
18....	21	....	....	....	....	....	69	92	16	1.5	1.5	2.2
19....	23	....	....	....	....	....	62	88	17	2.8	0.9	2.2
20....	21	....	....	....	....	....	62	90	18	1.5	0.9	2.0
21....	20	....	....	....	....	....	56	110	20	1.0	0.6	2.0
22....	20	....	....	....	....	....	62	121	21	0.6	0.4	1.8
23....	21	....	....	....	....	....	95	116	21	0.3	0.3	3.0
24....	20	....	....	....	....	....	95	122	18	0.2	0.3	4.6
25....	19	....	....	....	....	....	83	128	16	0.4	0.2	5.8
26....	20	....	....	....	....	....	73	118	14	0.6	0	5.5
27....	18	....	....	....	....	....	73	110	13	0.9	0	5.5
28....	18	....	....	....	....	....	76	92	12	2.5	0.3	4.9
29....	18	....	....	....	....	....	99	81	9.8	3.2	0.4	8.2
30....	18	Nov. 1	....	....	....	....	116	83	9.4	3.8	3.0	12
31....	17	to 5	....	....	....	....	....	122	....	4.9	4.9	....
Total	581	125	....	....	....	....	1021	2806	1379.2	96.3	117.2	138.6
Mean.	18.7	25	....	....	....	....	78.5	90.5	46.0	3.11	3.78	4.62
Max..	23	28	....	....	....	....	116	128	174	9.0	14	12
Min...	14	18	....	....	....	....	56	55	9.4	0.2	0	1.8
Acre-ft.	1150	248	....	....	....	....	2030	5570	2740	191	232	275

Total run-off for water year 1938-39=12.436 acre-feet.

Discharge of Canadian River at Cowdrey, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	12	14	....	....	....	....	48	18	72	12	7.7	10
2....	9.2	14	....	....	....	....	54	14	77	18	6.6	7.7
3....	8.1	14	....	....	....	....	50	20	80	32	5.9	7.0
4....	7.7	14	....	....	....	....	46	19	82	33	5.6	6.3
5....	8.4	14	....	....	....	....	42	18	76	29	5.0	5.9
6....	9.6	14	....	....	....	....	34	24	83	24	4.4	7.4
7....	9.6	16	....	....	....	....	38	24	117	19	4.4	7.7
8....	9.6	16	....	....	....	....	36	20	104	16	5.0	7.0
9....	11	16	....	....	....	....	38	18	62	14	5.0	7.7
10....	14	14	....	....	....	....	41	18	52	12	5.2	13
11....	15	13	....	....	....	....	33	18	42	14	5.6	18
12....	14	....	....	....	....	....	30	22	37	12	6.6	16
13....	14	....	....	....	....	....	30	42	30	10	5.9	12
14....	13	....	....	....	....	....	28	67	26	8.8	5.0	11
15....	12	....	....	....	....	....	41	65	23	7.4	4.0	13
16....	12	....	....	....	....	....	60	60	31	5.2	3.7	12
17....	11	....	....	....	....	....	53	59	45	5.2	3.4	12
18....	11	....	....	....	....	....	38	61	34	7.7	3.4	11
19....	10	....	....	....	....	....	29	55	27	13	3.7	10
20....	10	....	....	....	....	....	28	51	23	22	4.0	13
21....	9.6	....	....	....	....	....	20	65	24	22	4.4	18
22....	9.6	....	....	....	....	....	25	71	22	17	4.4	18
23....	10	....	....	....	....	....	25	57	20	22	5.0	19
24....	10	....	....	....	....	....	23	47	18	19	5.6	16
25....	11	....	....	....	....	....	27	42	16	14	11	16
26....	10	....	....	....	....	....	23	44	14	12	11	14
27....	10	....	....	....	....	....	14	61	12	10	16	14
28....	9.2	....	....	....	....	....	17	93	9.6	8.4	16	14
29....	12	....	....	....	....	....	20	103	6.3	8.4	16	16
30....	13	....	....	....	....	....	20	90	7.7	8.8	14	21
31....	14	....	....	....	....	....	....	83	....	8.4	11	....
Total	339.6	159	....	....	....	....	1011	1449	1272.6	464.3	214.5	373.7
Mean.	11.0	14.5	....	....	....	....	33.7	46.7	42.4	15.0	6.92	12.5
Max..	15	16	....	....	....	....	60	103	117	33	16	21
Min...	7.7	13	....	....	....	....	14	14	6.3	5.2	3.4	5.9
Acre-ft.	674	315	....	....	....	....	2010	2870	2520	921	425	741

Total run-off for period=10,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Laramie River Near Glendevey, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	38	26	....	....	....	....	22	162	320	26	22	19
2....	40	27	....	....	....	....	25	187	250	25	21	18
3....	39	27	....	....	....	....	32	126	171	22	18	17
4....	37	26	....	....	....	....	41	103	197	20	16	16
5....	39	28	....	....	....	....	44	110	275	18	16	16
6....	48	22	....	....	....	....	38	106	215	15	16	18
7....	44	24	....	....	....	....	33	89	149	15	17	24
8....	44	26	....	....	....	....	32	96	124	15	16	26
9....	45	27	....	....	....	....	39	111	107	14	14	21
10....	44	26	....	....	....	....	34	118	106	14	14	18
11....	39	28	....	....	....	....	30	104	92	14	14	19
12....	37	24	....	....	....	....	31	95	83	15	14	20
13....	36	26	....	....	....	....	39	92	85	23	14	19
14....	35	26	....	....	....	....	46	113	113	41	20	18
15....	36	30	....	....	....	....	42	121	118	18	23	16
16....	34	24	....	....	....	....	35	118	97	20	23	16
17....	37	26	....	....	....	....	32	120	86	18	22	16
18....	34	22	....	....	....	....	32	147	77	15	21	16
19....	34	26	....	....	....	....	32	190	194	14	20	15
20....	33	26	....	....	....	....	34	194	218	14	20	15
21....	32	26	....	....	....	....	37	194	207	13	20	15
22....	32	22	....	....	....	....	43	207	78	14	18	15
23....	30	18	....	....	....	....	63	218	42	15	15	18
24....	28	20	....	....	....	....	58	204	39	14	17	18
25....	29	20	....	....	....	....	57	215	38	14	18	17
26....	27	18	....	....	....	....	54	182	35	15	18	18
27....	27	20	....	....	....	Mar. 29	58	144	31	16	18	18
28....	26	20	....	....	....	to 31	74	137	29	18	19	21
29....	26	22	....	....	....	20	114	167	29	16	24	24
30....	26	22	....	....	....	22	134	232	28	22	22	19
31....	26	....	....	....	....	24	....	284	....	24	21	....
Total	1082	725	....	....	....	66	1385	4686	3623	557	571	546
Mean.	34.9	24.2	....	....	....	22	46.2	151	121	18.0	18.4	18.2
Max..	48	30	....	....	....	24	134	284	320	41	24	26
Min...	26	18	....	....	....	20	22	89	28	13	14	15
Acre-ft.	2150	1440	...	....	....	131	2750	9290	7210	1100	1130	1080

Total run-off for water year 1938-39=26,281 acre-feet.

Discharge of Laramie River Near Glendevey, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	17	20	....	....	....	....	24	30	210	218	69	37
2....	15	24	....	....	....	....	24	32	178	260	65	34
3....	13	23	....	....	....	....	22	41	167	270	62	33
4....	14	23	....	....	....	....	21	76	140	230	59	41
5....	18	23	....	....	....	....	20	88	140	210	55	34
6....	19	26	....	....	....	....	21	89	140	190	53	32
7....	18	26	....	....	....	....	21	92	110	173	52	31
8....	18	24	....	....	....	....	21	95	83	154	53	24
9....	24	24	....	....	....	....	20	92	65	145	49	30
10....	23	22	....	....	....	....	20	95	68	140	46	59
11....	20	22	....	....	....	....	20	97	58	135	44	40
12....	20	22	....	....	....	....	23	93	68	129	42	32
13....	22	21	....	....	....	....	22	97	81	127	39	31
14....	22	20	....	....	....	....	30	78	92	121	38	30
15....	20	19	....	....	....	....	34	81	97	116	37	24
16....	20	18	....	....	....	....	34	96	106	121	39	24
17....	20	17	....	....	....	....	26	90	295	162	38	24
18....	20	17	....	....	....	....	29	90	367	215	37	26
19....	20	17	....	....	....	....	36	73	364	200	34	27
20....	19	18	....	....	....	....	47	73	374	151	34	27
21....	19	19	....	....	....	....	45	92	367	134	38	32
22....	19	19	....	....	....	....	38	81	331	120	35	32
23....	20	18	....	....	....	....	35	73	310	109	33	32
24....	20	18	....	....	....	....	37	65	278	100	37	32
25....	19	17	....	....	....	....	40	64	250	93	45	30
26....	16	17	....	....	....	....	43	73	242	89	62	33
27....	18	17	....	....	....	....	48	103	215	81	70	38
28....	18	17	....	....	....	....	45	116	220	67	56	35
29....	20	16	....	....	....	....	43	95	210	81	49	61
30....	22	18	....	....	....	18	39	88	200	81	45	49
31....	20	....	....	....	....	21	....	96	....	74	42	....
Total	593	602	....	....	....	....	928	2544	5826	4496	1457	1014
Mean.	19.1	20.1	....	....	....	....	30.9	82.1	194	145	47.0	33.8
Max..	24	26	....	....	....	....	48	116	374	270	70	61
Min...	13	16	....	....	....	....	20	30	58	67	33	24
Acre-ft.	1180	1190	....	....	....	....	1840	5050	11560	8920	2890	2010

Total run-off for period=34,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Laramie River Near Jelm, Wyo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	60	48	36	28	26	28	66	305	830	77	76	31
2....	64	51	34	28	22	32	70	460	764	72	56	28
3....	65	51	34	26	24	32	80	494	557	65	48	24
4....	62	52	36	24	26	30	100	389	584	59	38	23
5....	60	52	36	24	28	28	110	432	677	48	33	23
6....	67	46	34	26	32	32	107	421	590	36	32	25
7....	70	44	34	24	34	36	105	310	477	30	35	36
8....	69	46	36	22	30	34	83	273	378	29	35	48
9....	72	48	36	24	28	36	92	282	348	25	28	49
10....	74	46	38	24	24	36	86	432	328	21	27	36
11....	69	48	38	22	26	34	76	368	300	21	25	33
12....	60	44	34	24	32	38	74	358	260	21	25	35
13....	57	46	32	22	36	44	79	278	238	21	25	39
14....	57	46	30	24	32	42	93	291	260	35	25	35
15....	56	48	32	20	34	40	93	338	282	48	29	30
16....	57	44	30	24	32	42	86	378	247	46	30	29
17....	57	46	28	22	26	44	67	314	223	62	30	29
18....	59	42	26	26	28	48	70	389	204	57	26	29
19....	59	44	30	28	34	50	79	564	358	54	25	27
20....	54	44	32	30	24	56	74	669	389	51	24	27
21....	56	44	28	30	22	58	74	669	278	42	25	27
22....	56	40	28	28	26	56	90	700	211	38	24	27
23....	52	36	24	26	30	55	113	748	119	43	25	30
24....	51	38	26	28	28	60	117	700	107	49	25	25
25....	51	38	28	30	26	64	111	684	109	46	25	31
26....	51	36	24	28	28	64	109	610	103	46	24	32
27....	51	38	22	32	26	60	113	488	93	48	23	31
28....	49	38	24	30	26	58	135	471	86	51	27	30
29....	48	40	26	28	....	56	184	533	79	49	35	42
30....	48	40	24	30	....	60	230	640	77	54	42	40
31....	46	....	26	30	....	62	....	780	....	70	35	....
Total	1807	1324	946	812	790	1415	2966	14768	9556	1414	982	961
Mean.	58.3	44.1	30.5	26.2	28.2	45.6	98.9	476	319	45.6	31.7	32
Max..	74	52	38	32	36	64	230	780	830	77	76	49
Min...	46	36	22	20	22	28	66	273	77	21	23	23
Acre-ft.	3580	2630	1880	1610	1570	2810	5880	29290	18950	2800	1950	1910

Total run-off for water year 1938-39=74,860 acre-feet.

Discharge of Laramie River Near Jelm, Wyoming, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	35	40	28	24	24	29	53	86	700	400	92	52
2....	30	39	29	26	24	28	49	81	716	437	84	48
3....	28	39	29	26	24	27	46	96	740	447	81	46
4....	26	39	30	25	24	27	44	132	662	395	78	46
5....	29	39	31	25	24	27	43	238	617	345	76	53
6....	33	42	32	24	25	26	45	268	647	300	72	45
7....	38	42	32	24	25	26	45	272	579	258	71	41
8....	42	40	30	23	24	26	43	340	442	234	69	43
9....	49	43	29	24	23	26	43	345	370	214	69	43
10....	54	42	30	26	24	27	41	370	360	189	64	69
11....	51	40	31	24	24	26	40	370	305	186	64	69
12....	48	45	28	24	23	25	36	350	300	172	63	52
13....	46	52	25	24	23	25	41	400	315	162	58	46
14....	46	45	23	24	24	26	46	325	330	158	55	46
15....	42	39	25	23	24	27	58	290	335	155	53	45
16....	38	38	24	24	22	28	61	355	335	152	53	39
17....	39	35	24	25	21	29	53	432	526	196	53	38
18....	40	31	20	24	21	30	50	340	654	325	49	39
19....	39	30	17	23	21	30	56	320	632	295	48	41
20....	39	31	18	21	22	31	56	360	647	220	50	44
21....	35	32	18	22	23	33	67	380	625	172	52	50
22....	36	33	17	20	22	34	69	290	560	160	50	55
23....	36	35	18	21	22	35	59	310	516	143	48	53
24....	38	30	18	21	23	37	66	272	468	135	48	50
25....	36	29	19	22	26	40	72	281	406	124	55	48
26....	36	29	19	22	26	44	71	330	390	115	72	45
27....	35	29	19	23	27	47	96	560	360	108	86	52
28....	33	30	20	23	28	51	106	669	335	96	78	55
29....	36	30	21	23	29	53	90	548	315	94	63	81
30....	38	29	22	23	....	55	92	537	295	115	58	79
31....	45	....	23	24	....	50	....	548	....	98	55	....
Total	1196	1097	749	727	692	1025	1737	10495	14482	6600	1967	1513
Mean.	38.6	36.6	24.2	23.5	23.9	33.1	57.9	339	483	213	63.5	50.4
Max..	54	52	32	26	29	55	106	669	740	447	92	81
Min...	26	29	17	20	21	25	36	81	295	94	48	38
Acre-ft.	2370	2180	1490	1440	1370	2030	3450	20820	28720	13090	3900	3000

Total run-off for water year 1939-40=83,860 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

ARKANSAS RIVER BASIN

ARKANSAS RIVER AT GRANITE, COLORADO

Location—Water stage recorder in Sec. 31, T. 11 S., R. 79 W., at Granite just above mouth of Cache Creek.

Drainage Area—431 square miles. Zero of gage is 8,915.72 feet above mean sea level.

Records Available—May 1, 1897, to September 10, 1899; April 6, 1910, to September 30, 1940.

Maximum discharge observed during period 1897-99, 1910-40; 2,900 second feet, June 16, 1924. Gage height 4.57 feet.

Maximum Discharge—Year 1939; 1,700 second feet, May 20, 1939. Gage height 4.63 feet.

Maximum Discharge—Year 1940; 1,180 second feet, June 2, 1940. Gage height 3.81 feet.

Accuracy—Records considered good. Records for period of ice effect, December 9, 1938, to March 18, 1939, computed on basis of 3 discharge measurements and comparison of records at Salida, and those for ice effect period December 19 to March 3, 1940, computed on basis of two discharge measurements, weather records, and comparison Salida records, and are fair.

Diversions for storage and irrigation above station. Sugar Loaf and Twin Lakes reservoirs on tributaries above station, total capacities 72,120 acre-feet. Wurtz Ditch, Ewing Ditch, Buske-Ivanhoe Tunnel, Twin Lakes Tunnel and Fremont Pass Ditch bring water from Colorado River basin to Arkansas River above station. Total diversions for 1939, 47,163 acre-feet and 33,970 acre-feet in 1940.

Ditch or Tunnel	Diverts from Stream	Diversions in Acre-Feet 1939	Diversions in Acre-Feet 1940
Buske-Ivanhoe Tunnel	Frying Pan River	5,354	4,020
Columbine Ditch	Eagle River	1,239	1,110
Ewing Ditch	Eagle River	929	172
Wurtz Ditch	Eagle River	1,484	994
Fremont Pass	Ten Mile River	1,097	634
Twin Lakes	Roaring Fork	37,060	27,040
	Total	47,163	33,970

ARKANSAS RIVER AT SALIDA, COLORADO

Location—Water stage recorder in Sec. 31, T. 50 N., R. 9 E., at Salida. South Arkansas River enters 3 miles below. Prior to December 3, 1936, station located 1½ miles downstream. Records comparable.

Drainage Area—1,210 square miles. Zero of gage is 7,052.34 feet above mean sea level.

Records Available — April 11, 1895, to October 31, 1903; November 3, 1909, to September 30, 1940.

Maximum discharge observed during period 1895-1903, 1909-1940; 5,100 second feet, June 16, 1924. Gage height 7.2 feet, former site and datum.

Maximum Discharge—Year 1939; 2,500 second feet, August 1, 1939. Gage height 3.60 feet.

Maximum Discharge—Year 1940; 1,510 second feet, June 3, 1940. Gage height 2.73 feet.

Accuracy—Records considered excellent in 1939 and 1940.

Diversions for storage and irrigation above station. Flow regulated by storage in Clear Creek Reservoir, capacity 11,444 acre-feet, and as described under Arkansas River at Granite, Colorado.

ARKANSAS RIVER AT CANON CITY, COLORADO

Location—Water stage recorder in Sec. 32, T. 18 S., R. 70 W., in Canon City, just above mouth of Sand Creek and ¼ mile above Southern Colorado Power Plant.

Drainage Area—3,090 square miles. Zero of gage is 5,343.87 feet above mean sea level.

Records Available—May 1, 1888, to September 30, 1940.

Maximum discharge observed during period 1888-1940; 19,000 second feet, August 2, 1921. Gage height 10.7 feet. Rating curve extended above 4,000 second feet.

Maximum Discharge—Year 1939; 2,250 second feet, May 21, 1939. Gage height 3.41 feet.

Maximum Discharge—Year 1940; 3,870 second feet, September 3, 1940. Gage height 4.78 feet.

Accuracy—Records considered good except those for period of ice effect, December 27-30, 1939; January 19 to February 24, 1940, which were computed on basis of records for station at Salida, and weather records, and are fair.

Diversions for irrigation above station. Grape Creek enters from south one mile above station.

ARKANSAS RIVER AT PORTLAND, COLORADO

Location—Water stage recorder in Sec. 21, T. 19 S., R. 68 W., at lower edge of Portland, a short distance above mouth of Hardscrabble Creek.

Drainage Area—3,790 square miles. Zero of gage is 5,921.56 feet above mean sea level.

Records Available—June 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 4,290 second feet, August 19, 1939. Gage height 5.68 feet.

Maximum Discharge—Year 1939; 4,290 second feet, August 19, 1939. Gage height 5.68 feet.

Maximum Discharge—Year 1940; 3,970 second feet, August 19, 1940. Gage height 5.46 feet.

Accuracy—Records considered good during 1939, except for period of missing gage heights, September 5, 7-8, 16-17, 1939, which were estimated, and are fair. Records considered excellent during 1940.

Diversions for irrigation above station.

ARKANSAS RIVER NEAR PUEBLO, COLORADO

Location—Water stage recorder in Sec. 34, T. 20 S., R. 65 W., at South Side Water Works Intake, 4 miles west of center of Pueblo. Both South Side and North Side Water Works divert above station. Dry Creek enters below station.

Drainage Area—4,730 square miles. Zero of gage is 4,689.82 feet above mean sea level.

Records Available—May 1, 1885 to September 30, 1887; September 19, 1894, to September 30, 1940. A station was maintained 9 miles above Pueblo in 1887 and 1889.

Maximum discharge observed during period 1885-87, 1894-1940; 103,000 second feet (slope measurement, including estimated discharge of Dry Creek, 19,500 second feet), June 3, 1921. Gage height 24.66 feet from gage at Pueblo.

Maximum Discharge—Year 1939; 2,906 second feet, June 1, 1939.

Maximum Discharge—Year 1940; 3,860 second feet, August 19, 1940.

Accuracy—Records considered good except those estimated for period of ice effect, February 10-13, 17, 21-23, 28 to March 2, 1939; and those for December 26-31, 1939; January 7-13, 28 to February 9, 1940, estimated from reports and weather records, which are fair.

Diversions for irrigation above station. The North Side Water Works diverts considerable water around station, wasting the major portion back to river. Records include diversions above station by intake to North Side Water Works since October 1, 1934.

ARKANSAS RIVER NEAR AVONDALE, COLORADO

Location—Water stage recorder in Sec. 1, T. 21 S., R. 63 W., 800 feet downstream from Nyberg bridge, 2 miles west of Avondale. Six Mile Arroya enters one-half mile downstream.

Drainage Area—6,350 square miles.

Records Available—May 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 7,180 second feet, May 29, 1940. Gage height 4.61 feet.

Maximum Discharge—Year 1939; 3,190 second feet, May 26, 1939. Gage height 3.01 feet.

Maximum Discharge—Year 1940; 7,180 second feet, May 29, 1940. Gage height 4.61 feet.

Accuracy—Records considered good, except for periods of missing gage heights, September 5-9; October 16 to 30, 1939; April 1-3, 20; May 6; July 11-13, 14, 1940, during which discharges were estimated by comparison with Pueblo record and daily ditch diversion records.

Diversions for irrigation above station.

ARKANSAS RIVER NEAR NEPESTA, COLORADO

Location—Water stage recorder in Sec. 31, T. 21 S., R. 60 W., above Oxford Farmers Canal Dam, 1¼ miles west of Nepesta. Records corrected for Oxford Farmers Canal waste 1918-26; not corrected from 1927 to June, 1936. Since June, 1936, records include all river flow above Oxford Farmers Dam.

Drainage Area—9,130 square miles.

Records Available—September 8, 1897, to October 31, 1903; July 14, 1909, to November 12, 1912; January 1, 1914, to September 30, 1940. From 1918 to June 4, 1921, station maintained at Nepesta.

Maximum discharge observed during period 1897-1903, 1909-12, 1914-40; 180,000 second feet (by slope area measurment at point 9 miles upstream), June 4, 1921.

Maximum Discharge—Year 1939; 5,750 second feet, May 25, 1939. Gage height 4.71 feet.

Maximum Discharge—Year 1940; 8,100 second feet, May 29, 1940. Gage height 5.25 feet.

Accuracy—Records considered good except for period of ice effect November 25-29; December 18-22, 1938, computed on basis of two discharge measurements and records at Pueblo, and for period January 2-5, 14-22, 1939, and those estimated February 9 to March 1, 1939; and for ice period December 24, 1939, to February 5, 1940, from gage readers' reports, weather records, which are fair.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT LA JUNTA, COLORADO

Location—Water stage recorder in Sec. 2, T. 24 S., R. 55 W., at East Bridge, in La Junta, just above mouth of King Arroya. This station has been maintained at several different locations at La Junta, during period of record, and all records are comparable.

Drainage Area—12,200 square miles. Zero of gage 4,039.60 feet above mean sea level.

Records Available—May to August, 1889; December, 1893, to December, 1895; January to December, 1901; April to October, 1903; August to November, 1908; April, 1912, to September 30, 1940.

Maximum discharge observed during period 1889, 1893-95, 1901, 1903, 1908, 1912-40; 200,000 second feet (slope area measurement), June 4, 1921. Gage height 18.4 feet.

Maximum Discharge—Year 1939; 6,410 second feet, August 19, 1939.

Maximum Discharge—Year 1940; 4,420 second feet, September 10, 1940. Gage height 6.70 feet.

Accuracy—Records considered good with frequent measurements and observations.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Location—Water stage recorder in Sec. 35, T. 22 ~~N.~~ S, R. 52 W., 1/3 mile below steel bridge on U. S. Highway 50, at Las Animas.

Zero of gage is 3,874.97 feet above mean sea level.

Records Available—May 23, 1939, to September 30, 1940.

Maximum Discharge—Year 1940; 3,070 second feet, September 11, 1940. Gage height 5.61 feet.

Diversions for storage and irrigation above station.

Records furnished by Corps of Engineers, U. S. Army.

ARKANSAS RIVER AT CADDOA, COLORADO

Location—Water stage recorder in N. W. corner of Sec. 4, T. 23 S., R. 49 W., 2 miles east of Caddoa and just upstream from mouth of Caddoa Creek.

Drainage Area—19,000 square miles. Zero of gage is 3,741.04 feet above mean sea level.

Records Available—February 7, 1938, to September 30, 1940.

Maximum discharge observed during period 11,800 second feet, July 18, 1938. Gage height 5.85 feet.

Accuracy—Records considered good.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT LAMAR, COLORADO

Location—Water stage recorder in Sec. 30, T. 22 S., R. 46 W., at highway bridge 1 mile north of Lamar. Lamar Canal diverts mile above station and at times wastes water to river ¼ mile below station.

Drainage Area—19,800 square miles. Zero of gage is 3,629.61 feet above mean sea level.

Records Available—May 11, 1913, to September 30, 1940.

Maximum discharge observed during period 1913-40; 165,000 second feet (slope area measurement), June 5, 1921.

Maximum Discharge—Year 1939; 957 second feet, February 21, 1939. Gage height 3.63 feet.

Maximum Discharge—Year 1940; 4,080 second feet, June 11, 1940. Gage height 4.40 feet.

Accuracy—Records considered fair except those for period of ice effect December 25-31, 1939; January 5-9, 19-27, 1940, computed on basis of weather records and estimates by observer and are poor, and those for period of missing gage heights, June 16-22, 1940, estimated from daily reports.

Diversions for irrigation above station.

ARKANSAS RIVER AT HOLLY, COLORADO

Location—Water stage recorder in Sec. 14, T. 23 S., R. 42 W., 700 feet above highway bridge and ½ mile south of Holly. Recorder moved above bridge January, 1938, due to shift in channel. Two Buttes Creek enters 1¼ mile upstream, and Wild Horse Creek enters 1 mile downstream.

Drainage Area—25,000 square miles. Altitude, 3,387 feet above mean sea level.

Records Available—October 15, 1907, to September 30, 1940.

Maximum discharge observed during period 1907-40; 136,000 second feet (slope measurement), October 20, 1908. Gage height 11.0 feet, former datum.

Maximum Discharge—Year 1939; 1,140 second feet, May 26, 1939. Gage height 3.78 feet.

Maximum Discharge—Year 1940; 1,680 second feet, September 12, 1940. Gage height 4.58.

Accuracy—Records considered fair. Those for periods of ice effect November 25-29, 1938; December 27, 1938, to January 27, February 27 to March 10, 1939, and from January 15-30, 1940, computed on basis of 4 discharge measurements, weather records and observer's notes.

Diversions for irrigation above station.

SOUTH ARKANSAS RIVER NEAR SALIDA, COLORADO

Location—Water stage recorder in Sec. 5, T. 49 N., R. 9 E., ¾ mile above mouth and 1¼ miles southwest of Salida.

Drainage Area—208 square miles. Altitude, 7,038 feet above mean sea level.

Records Available—April 1, 1922, to December 31, 1924; June 9, 1929, to September 30, 1940. From April, 1922, to December, 1924, station maintained ½ mile downstream. (Discontinued.)

Maximum daily discharge observed during period 1922-24, 1929-40; 1,220 second feet, June 17, 1923.

Maximum Discharge—Year 1939; 120 second feet, May 10, 1939. Gage height 2.50 feet.

Maximum Discharge—Year 1940; 205 second feet, August 22, 1940. Gage height 2.52 feet.

Accuracy—Records considered good except those for period of ice effect, November 23-30, 1938; January 10 to March 11, 1939, which were computed on basis of 1 discharge measurement and weather records, and those during ice effect December 6-31, 1939; January 6-11, 14, March 1, 1940, computed on basis of weather records, 2 discharge measurements, and which are fair.

Diversions for irrigation above station.

GRAPE CREEK NEAR WESTCLIFFE, COLORADO

Location—Water stage recorder in Sec. 36, T. 21 S., R. 73 W., at weir 1 mile above DeWeese Dye Reservoir, and 3 miles northwest of Westcliffe.

Drainage Area—346 square miles. Altitude, 7,800 feet above mean sea level.

Records Available—December 1, 1924, to June 30, 1928; March 25, 1930, to September 30, 1940.

Maximum discharge observed during period 1924-28, 1930-40; about 1,400 second feet, July 22, 1930. Gage height 4.60 feet (computed by weir formula, with overflow estimated).

Maximum Discharge—Year 1939; 196 second feet, May 26, 1939. Gage height 1.84 feet.

Maximum Discharge—Year 1940; 123 second feet, September 10, 1940. Gage height 1.52 feet.

Accuracy—Records considered good except those estimated from November 13, 1938, to March 17, 1939, and from December 13, 1939, to March 15, 1940, which are fair.

Diversions for irrigation above station.

MONUMENT CREEK AT PIKEVIEW, COLORADO

Location—Water stage recorder in Sec. 18, T. 13 S., R. 66 W., at east edge of Pikeview, 3 miles north of city limits of Colorado Springs and 0.1 mile west of U. S. Highways 85 and 87. Cottonwood Creek enters from left 1.4 mile above.

Drainage Area—204 square miles. Zero of gage is 6,203.31 feet above mean sea level.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 262 second feet, April 12, 1939. Gage height 2.96 feet.

Maximum Discharge—Year 1939; 262 second feet, April 12, 1939. Gage height 2.96 feet.

Maximum Discharge—Year 1940; 215 second feet, June 5, 1940. Gage height 2.85 feet.

Accuracy—Records considered poor.

FOUNTAIN CREEK NEAR FOUNTAIN, COLORADO

Location—Water stage recorder in Sec. 4, T. 17 S., R. 65 W., in El Paso County just above railroad bridge over Fountain Creek on right bank at old Roby ranch 6 miles south of Fountain and 1 mile downstream from Little Fountain Creek.

Drainage Area—676 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 22,100 second feet, May 28, 1940. Gage height 9.19 feet.

Maximum Discharge—Year 1939; 1,300 second feet, August 2, 1939. Gage height 3.65 feet.

Maximum Discharge—Year 1940; 22,100 second feet, May 28, 1940. Gage height 9.19 feet.

Accuracy—Records considered poor.

ST. CHARLES RIVER AT SAN ISABEL, COLORADO

Location—Water stage recorder in Sec. 12, T. 24 S., R. 69 W., at 10-foot rectangular weir above highwater of Lake Isabel, ¾ mile southwest of San Isabel.

Drainage Area—18.8 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Complete records furnished by U. S. Forest Service.

HUERFANO RIVER AT MANZANARES CROSSING NEAR REDWING, COLORADO

Location—Water stage recorder in Sec. 5, T. 27 S., R. 71 W., at Manzanares Crossing, 3½ miles southwest of Redwing.

Drainage Area—76 square miles.

Records Available—July 14, 1923, to September 30, 1940. No winter records prior to 1936.

Maximum discharge observed during period 1923-40; discharge not determined July 27, 1934. Gage height 4.80 feet.

Maximum Discharge—Year 1939; 153 second feet, August 25, 1939. Gage height 1.23 feet.

Maximum Discharge—Year 1940; 291 second feet, August 21, 1940. Gage height 1.64 feet.

Accuracy—Records considered good except those for period of ice effect November 6-10, 22, 1938, to March 29, 1939, computed on basis of 10 discharge measurements and weather records, and those for period of ice effect November 25-26; December 19, 1939, to March 21, 1940, computed on basis of 4 discharge measurements, weather records, and which are fair.

Diversions for irrigation above station.

HUERFANO RIVER AT BADITO, COLORADO

Location—Water stage recorder in Sec. 4, T. 27 S., R. 68 W., at concrete highway bridge on Highway 69 at Badito. South Oak Creek, an intermittent stream, enters a short distance upstream. Station maintained at this site 1912, 1923-25.

Drainage Area—519 square miles.

Records Available—August 28 to November 30, 1912; April 1, 1923, to September 30, 1925; March 6, 1938, to September 30, 1940.

Maximum Discharge—Year 1939; 3,160 second feet, August 2, 1939. Gage height 9.01 feet.

Maximum Discharge—Year 1940; 1,310 second feet, September 21, 1940. Gage height 7.1 feet.

Accuracy—Records considered poor. Those for ice period effect, December 19, 1939, to February 25, 1940, computed on basis of 4 discharge measurements and weather records.

Diversions for irrigation above station.

HUERFANO RIVER NEAR UNDERCLIFFE, COLORADO

Location—Water stage recorder in Sec. 15, T. 23 S., R. 63 W., at mouth of canyon ½ mile below diversion dam for Huerfano Valley Ditch, and 5 miles southwest of Undercliffe. This replaces station previously maintained 600 feet above diversion dam. Records not comparable.

Drainage Area—1,702 square miles.

Records Available—May 16, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 11,000 second feet, June 7, 1938. Gage height 5.91 feet.

Maximum Discharge—Year 1939; 1,990 second feet, August 2, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 5,480 second feet, September 9, 1940. Gage height 4.93 feet.

Accuracy—Records considered fair except those below 200 second feet which are poor. Records for periods May 22, 24-29; June 12 to July 14, August 22-28, computed on basis of 4 discharge measurements and estimates by water commissioner.

Diversions for storage and irrigation above station.

CUCHARAS RIVER AT BOYD RANCH NEAR LA VETA, COLORADO

Location—Water stage recorder in Sec. 24, T. 30 S., R. 69 W., 6 miles south of La Veta.

Drainage Area—75 square miles.

Records Available—January 1, 1923, to September 30, 1940. Prior to October, 1934, station located 2 miles downstream. Records not comparable.

Maximum discharge observed during period 1935-40; 291 second feet, June 3, 1937. Gage height 2.43 feet.

Maximum Discharge—Year 1939; 92 second feet, June 2, 1939. Gage height 1.52 feet.

Maximum Discharge—Year 1940; 102 second feet, May 21, 1940. Gage height 1.60 feet.

Accuracy—Records considered good except for ice period November 26-30; December 12, 1938, to March 14, 1939. Computed on basis of 7 discharge measurements and weather records, and those for period of ice effect, December 22, 1939, to March 15, 1940, computed on basis of 5 measurements and weather records, and which are fair.

Diversions for irrigation above station.

APISHAPA RIVER AT AGUILAR, COLORADO

Location—Water stage recorder in Sec. 4, T. 31 S., R. 65 W., ½ mile above diversion dam and 1½ miles southwest of Aguilar. This site, established September 30, 1939, is 2 miles above site used previously. Records are not comparable as ditch at diversion dam diverts water up to 50 second feet.

Drainage Area—130 square miles.

Records Available—April 1, 1938, to September 30, 1939, at former site; October 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1938-40; 5,260 second feet (slope area method), August 10, 1938. Gage height 14.32 feet. (Former site and datum.)

Maximum Discharge—Year 1939; 1,100 second feet, August 20, 1939. Gage height 8.10 feet (former site).

Maximum Discharge—Year 1940; 112 second feet, September 23, 1940. Gage height 3.23 feet.

Accuracy—Records considered poor. Those for ice effect period, and from December 30-31, 1939, to January 12-30, 1940, computed on basis of weather records.

Diversions for irrigation above station.

APISHAPA RIVER NEAR MOUTH NEAR FOWLER, COLORADO

Location—Water stage recorder in Sec. 35, T. 22 N., R. 59 W., at concrete highway bridge 4 miles above mouth and 3½ miles south of Fowler. Oxford Farmers Canal wastes into stream approximately ½ mile upstream.

Records Available—April 1, 1922, to September 30, 1925, State Engineer records; May, 1939, to September 30, 1940.

Maximum discharge observed during period 1922-25, 1939-40; 50,000 second feet, August 22, 1923. Gage height 24.70 feet.

Maximum Discharge—Year 1940; 5,320 second feet, September 10, 1940. Gage height 8.30 feet.

1940 records furnished by Corps of Engineers, U. S. Army.

PURGATOIRE RIVER AT TRINIDAD, COLORADO

Location—Water stage recorder in Sec. 13, T. 33 S., R. 64 W., at foot of State Street, in Trinidad. Stations maintained at various sites, but records are comparable.

Drainage Area—742 square miles. Altitude, 5,990 feet above mean sea level.

Records Available—May, 1896, to July, 1899; August to December, 1905; November, 1906, to March, 1907; October, 1907, to November, 1912; April, 1916, to September 30, 1940.

Maximum discharge observed during period 1896-99, 1905, 1906-12, 1916-40; 45,400 second feet, September 30, 1904. Gage height 16.6 feet from Commercial Street gage.

Maximum Discharge—Year 1939; 1,615 second feet, October 8, 1939. Gage height 3.61 feet.

Maximum Discharge—Year 1940; 2,830 second feet, September 10, 1940. Gage height 4.49 feet.

Accuracy — Records considered good except for ice effect periods, November 6-10, 22-30; December 14-25, 1938; January 18-22, February 1-9, 17, 18, 22 to March 5; and November 21-24; December 17, 1939, to February 22, 1940, computed on basis of 5 discharge measurements each period, and weather records, and which are fair.

Diversions for irrigation above station.

PURGATOIRE RIVER AT NINE MILE DAM NEAR HIGBEE, COLORADO

Location—Water stage recorder in Sec. 32, T. 26 S., R. 54 W., 700 feet above Nine Mile Dam, 4 miles southwest of Higbee and 15 miles south of La Junta. Smith Canon enters 4 miles below station.

Drainage Area—2,900 square miles. Zero of gage is 4,240.59 feet above mean sea level.

Records Available—October, 1924, to September 30, 1940.

Maximum discharge observed during period 1924-40; 64,500 second feet, September 15, 1934, by slope area method. Gage height 12.60 feet.

Maximum Discharge—Year 1939; 3,430 second feet, August 20, 1939. Gage height 4.67 feet.

Maximum Discharge—Year 1940; 8,570 second feet, September 10, 1940. Gage height 5.67 feet.

Accuracy—Records considered fair. Those for ice effect periods December 14, 15, 23, 24, 1938; February 5, 6, 1939, and January 7-10, 18-31, 1940, were computed on basis of weather records.

Discharges for October 1-5, 1938; May 7; June 1, 5, 19, 22-26; July 2-8, 11-22, 24-27, 28; August 6-18, 29-31; December 7, 1939, to April 4, 1940; April 28 to May 18; June 1-7; July 3-14, 17-29; August 1-4, 6, 8-16, 26-31; September 1-5, 7-10, 22, 23, 29, 30, 1940, measured through a Parshall flume.

Diversions for irrigation above station.

PURGATOIRE RIVER AT HIGHLAND (CARMEN) DAM NEAR LAS ANIMAS, COLORADO

Location—Water stage recorder in Sec. 1, T. 25 S., R. 53 W., above Highland Ditch diversion; dam situated 11 miles southwest of Las Animas. Tarbox Arroya enters ¼ mile below station.

Drainage Area—3,320 square miles

Records Available—October 1, 1931, to September 30, 1940.

Maximum discharge observed during period 1931-40; 33,000 second feet, by slope area method, September 15, 1934. Gage height 14.00 feet.

Maximum Discharge—Year 1939; 3,800 second feet, August 20, 1939. Gage height 4.85 feet.

Maximum Discharge—Year 1940; 5,900 second feet, June 10, 1940. Gage height 5.84 feet.

Accuracy—Records considered fair. Those for periods of ice effect November 28-31, 1938; February 6-10, 22 to March 3, and from December 25, 1939, to February 7, 1940, which were computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

WILD HORSE CREEK NEAR HOLLY, COLORADO

Location—Water stage recorder in Sec. 15, T. 23 S., R. 42 W., just upstream from mouth and ¼ mile from Holly.

Altitude—3,387 feet above mean sea level.

Records Available—October 1, 1922, to August 28, 1935; November 17, 1938, to September 30, 1940.

Maximum discharge observed during period 1922-35, 1938-40; 22,000 second feet (slope measurement), August 28, 1935, at point 11 miles above station.

Maximum Discharge—Year 1939; 108 second feet, January 14, 1939. Gage height 2.65 feet.

Maximum Discharge—Year 1940; 624 second feet, May 8, 1940. Gage height 4.21 feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

HOLLY DRAIN NEAR HOLLY, COLORADO

Location—Water stage recorder in Sec. 16, T. 23 S., R. 41 W., 100 yards west of Colorado-Kansas state line, where Santa Fe railroad crosses Drain. Cheyenne Creek enters just above station.

Altitude—3,385 feet above mean sea level.

Records Available—January 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1924-40; 1,470 second feet, September 3, 1938. Gage height 10.29 feet.

Maximum Discharge—Year 1939; 246 second feet, May 2, 1939. Gage height 8.44 feet.

Maximum Discharge—Year 1940; 172 second feet, May 8, 1940. Gage height 7.56 feet.

Accuracy—Records considered fair. Periods of ice effect, November 22-28, 1938, and December 12, 1938, to March 6, 1939, computed on basis of 5 discharge measurements, weather records and observations. Records from October 8 to 24, 1939, and from January 18 to February 4, 1940, were computed on basis of discharge measurements and gage readings. Since October 1, 1938, Wild Horse Creek has not discharged into Drain.

Discharge of Arkansas River at Granite, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	156	130	94	88	76	86	116	885	1380	527	846	188
2....	154	144	100	90	75	82	128	997	1210	565	738	169
3....	152	147	96	85	72	84	142	1010	1090	554	731	152
4....	147	147	111	82	72	88	144	1040	1140	505	731	142
5....	132	154	111	78	75	88	140	1030	1370	462	731	137
6....	137	140	109	80	76	84	132	1020	1410	473	391	132
7....	183	125	98	85	*75	85	118	984	1210	688	283	154
8....	246	147	94	90	74	90	123	801	1060	859	287	172
9....	216	144	98	95	73	90	135	738	957	808	242	177
10....	200	140	98	91	72	94	130	840	924	820	232	194
11....	256	137	103	88	74	90	128	944	964	878	219	208
12....	317	135	100	85	76	89	130	865	904	795	214	180
13....	313	123	100	85	78	90	154	924	957	801	211	161
14....	214	130	98	84	78	*91	174	990	1140	833	202	180
15....	172	135	97	82	75	100	152	1090	1170	990	273	177
16....	172	200	100	82	75	105	144	1120	1060	924	609	166
17....	169	186	100	80	77	110	130	1220	1020	859	604	149
18....	166	164	98	78	79	109	120	1240	820	769	565	147
19....	161	123	97	75	82	114	135	1370	669	424	559	147
20....	159	125	100	76	86	123	144	1600	615	396	554	140
21....	159	125	100	82	86	132	166	1620	814	377	565	130
22....	169	116	95	84	85	132	253	1620	970	273	559	142
23....	169	105	88	82	87	125	462	1610	1170	236	538	197
24....	172	100	85	80	85	130	457	1540	1180	222	527	197
25....	177	96	85	78	80	137	473	1340	1050	249	511	200
26....	174	92	83	79	86	132	565	937	1000	484	494	194
27....	132	80	82	80	88	130	581	808	951	719	313	132
28....	132	92	85	80	88	116	676	997	951	788	166	130
29....	130	91	87	78	....	109	744	1400	924	852	180	128
30....	132	105	85	78	....	105	801	1400	846	944	188	116
31....	130	....	87	77	....	107	....	1400	....	938	200	....
Total	5498	3878	2964	2557	2205	3247	7897	35380	30926	20012	13463	4838
Mean.	177	129	95.6	82.5	78.8	105	263	1141	1031	646	434	161
Max..	317	200	111	95	88	137	801	1620	1410	990	846	208
Min...	130	80	82	75	72	82	116	738	615	222	166	116
Acre-ft.	10910	7690	5880	5070	4370	6440	15660	70180	61340	39690	26700	9600

Total run-off for water year 1938-39=263,500 acre-feet.

*Discharge measurement.

Discharge of Arkansas River at Granite, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	107	114	114	68	60	70	96	144	964	505	156	130
2....	107	118	64	69	60	70	85	142	1130	419	156	128
3....	100	116	64	70	60	68	78	125	1150	396	156	125
4....	96	105	64	140	60	64	75	166	990	405	154	137
5....	92	118	65	160	60	70	80	186	859	364	156	154
6....	89	123	65	160	59	65	83	166	676	305	154	144
7....	89	114	67	140	59	64	75	205	615	280	186	132
8....	94	114	67	100	59	70	72	236	604	263	180	128
9....	96	114	67	84	58	71	72	273	891	270	152	132
10....	94	105	67	75	58	74	70	328	964	290	144	140
11....	94	105	67	73	58	72	65	448	997	280	144	135
12....	94	98	67	70	56	72	68	587	997	253	290	123
13....	94	87	64	70	55	67	71	581	1060	211	478	140
14....	92	83	65	68	54	70	82	500	885	290	473	142
15....	91	83	67	68	54	77	103	419	707	682	452	152
16....	89	83	68	67	54	130	85	700	694	725	462	152
17....	87	78	68	66	54	132	75	1020	731	700	473	147
18....	85	80	68	65	54	123	92	846	788	663	467	156
19....	85	74	68	64	54	80	98	609	744	632	484	149
20....	82	77	68	63	54	78	109	713	682	626	527	147
21....	80	75	68	63	55	82	116	750	694	626	494	154
22....	82	72	68	63	58	87	116	638	814	626	438	174
23....	82	74	67	62	60	87	111	452	1010	581	360	191
24....	80	70	66	62	62	85	116	396	957	242	253	256
25....	78	68	65	62	64	89	132	433	878	172	154	283
26....	92	70	65	62	68	94	159	527	846	174	161	249
27....	164	77	64	62	70	91	177	598	827	174	180	225
28....	164	123	63	61	70	92	186	604	744	186	177	197
29....	172	120	65	61	68	80	186	700	763	216	169	197
30....	159	120	65	61	....	78	183	651	609	253	152	205
31....	114	....	67	61	....	89	....	878	....	194	137	....
Total	3124	2858	2097	2420	1715	2541	3116	15021	25270	12003	8519	4924
Mean.	101	95.3	67.6	78.1	59.1	82.0	104	485	842	387	275	164
Max..	172	123	114	160	70	132	186	1020	1150	725	527	283
Min...	78	68	63	61	54	64	65	125	604	172	137	123
Acre-ft.	6200	5670	4160	4800	3400	5040	6180	29790	50120	23810	16900	9770

Total run-off for water year 1939-40=165,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Salida, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	378	294	280	264	203	206	223	1040	1920	939	1170	331
2....	362	298	285	272	206	199	230	1240	1720	860	1050	303
3....	357	298	272	268	199	206	237	1360	1540	809	904	276
4....	362	298	289	264	209	213	244	1260	1560	738	895	248
5....	357	312	285	237	216	199	252	1190	1860	700	921	237
6....	357	298	285	252	223	186	256	1320	2080	657	801	233
7....	485	289	272	256	213	196	240	1370	1820	785	485	272
8....	636	317	289	268	206	206	230	1280	1600	1020	498	294
9....	548	352	289	280	206	220	233	1160	1350	1020	441	321
10....	516	362	298	264	189	216	240	1160	1300	957	414	383
11....	474	352	308	252	189	206	230	1230	1280	1030	368	362
12....	568	336	303	252	203	199	226	1350	1370	966	347	352
13....	575	317	289	248	216	206	233	1380	1400	939	342	308
14....	548	321	272	237	213	213	272	1410	1580	930	336	317
15....	399	317	294	233	213	203	280	1590	1690	1090	342	368
16....	425	347	317	248	209	206	264	1680	1630	1100	555	347
17....	414	404	298	240	216	223	244	1680	1520	1010	715	289
18....	394	383	280	226	216	216	244	1710	1270	993	694	280
19....	378	357	303	230	223	220	252	1850	1070	664	694	237
20....	368	342	312	237	233	256	260	2140	921	555	650	233
21....	357	336	308	240	230	276	276	2240	1020	529	629	226
22....	342	298	303	230	230	264	317	2240	1250	480	650	252
23....	342	289	276	226	226	260	582	2210	1320	394	622	276
24....	336	256	272	213	213	280	685	2100	1430	368	615	294
25....	336	276	252	220	199	256	715	1910	1400	347	595	321
26....	336	260	252	213	209	260	793	1380	1310	498	650	368
27....	342	264	244	216	220	272	912	1160	1230	760	602	326
28....	312	256	256	220	213	252	1020	1220	1230	895	414	294
29....	312	260	260	216	....	237	1030	1730	1220	1050	331	298
30....	308	272	252	213	....	226	1010	1910	1240	1150	347	298
31....	298	....	260	216	....	223	....	1940	....	1130	352	....
Total	12522	9361	8755	7451	5941	7001	12230	48440	43131	25363	18429	8944
Mean.	404	312	282	240	212	226	408	1563	1438	818	594	298
Max..	636	404	317	280	233	280	1030	2240	2080	1150	1170	383
Min...	298	256	244	213	189	186	223	1040	921	347	331	226
Acre-ft.	24840	18570	17370	14780	11780	13890	24260	96080	85550	50310	36550	17740

Total run-off for water year 1938-39=411,720 acre-feet.

Discharge of Arkansas River at Salida, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	254	198	243	214	188	204	159	239	1220	761	275	287
2....	228	201	235	194	188	194	169	224	1350	676	254	266
3....	220	204	201	188	188	191	162	224	1470	612	235	250
4....	214	207	204	201	178	191	153	228	1300	585	250	247
5....	214	201	198	279	182	188	159	279	1060	532	243	243
6....	204	210	188	283	182	191	172	287	834	500	243	250
7....	198	217	188	275	201	182	169	271	730	429	250	228
8....	207	210	188	266	191	185	156	372	730	434	275	217
9....	220	217	188	194	185	201	140	382	817	414	258	214
10....	217	210	191	207	191	204	140	440	1080	414	254	231
11....	214	204	182	207	204	207	134	565	1010	398	250	224
12....	220	207	182	201	194	191	124	800	1060	388	247	220
13....	220	204	169	201	185	175	127	868	1120	377	558	224
14....	207	194	172	185	194	172	130	834	1190	351	585	228
15....	194	188	182	175	201	182	140	625	932	612	572	224
16....	198	185	194	182	198	207	166	676	885	817	578	239
17....	204	182	198	188	185	243	156	1090	817	777	585	231
18....	194	182	194	188	191	231	137	1250	904	745	585	243
19....	185	182	178	178	201	214	153	885	942	738	585	250
20....	182	182	182	188	185	182	175	842	876	714	612	258
21....	185	191	185	185	188	178	172	868	826	777	591	279
22....	185	188	178	172	191	182	175	842	826	761	645	258
23....	182	185	182	175	191	178	182	738	1220	792	612	283
24....	182	185	185	182	194	175	185	552	1160	585	532	398
25....	182	182	182	188	188	172	182	605	1110	323	332	469
26....	185	178	182	182	201	169	194	722	1010	292	275	429
27....	207	182	175	201	198	172	214	868	1040	287	279	408
28....	231	204	185	198	210	166	239	876	961	283	287	346
29....	243	239	169	198	210	162	239	942	952	305	300	296
30....	239	250	188	198	....	146	235	860	923	351	314	296
31....	220	....	220	191	....	146	....	1120	....	346	337	....
Total	6435	5969	5888	6264	5583	5781	5038	20374	30355	16376	12198	8236
Mean.	208	199	190	202	193	186	168	657	1012	528	393	275
Max..	254	250	243	283	210	243	239	1250	1470	817	645	469
Min...	182	178	169	172	178	146	124	224	730	283	235	214
Ac.-ft.	12760	11840	11680	12420	11070	11470	9990	40410	60210	32480	24190	16340

Total run-off for water year 1939-40=254,860 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Canon City, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	528	362	382	346	262	274	407	979	1940	1020	1040	306
2....	436	362	398	342	236	270	407	1140	1840	741	1160	274
3....	403	362	390	330	225	255	424	1290	1560	733	856	243
4....	403	350	374	314	232	247	394	1260	1480	677	824	207
5....	419	386	370	298	274	225	370	1150	1690	603	832	182
6....	403	428	362	306	286	240	394	1240	2000	565	832	179
7....	476	378	358	318	306	236	394	1310	1880	565	565	179
8....	770	407	354	326	290	236	338	1260	1590	785	432	228
9....	719	481	370	370	278	225	326	1130	1310	952	407	247
10....	590	492	370	354	266	251	322	1090	1190	880	346	278
11....	547	492	386	310	247	262	310	1100	1170	880	338	326
12....	553	463	378	306	286	266	270	1240	1310	916	302	314
13....	565	436	362	310	310	286	240	1280	1270	848	286	286
14....	578	432	330	294	298	310	240	1310	1440	832	278	251
15....	528	441	350	259	274	286	290	1420	1620	889	282	274
16....	463	428	382	282	278	286	310	1580	1580	1050	294	290
17....	476	467	354	298	259	282	259	1580	1470	979	636	262
18....	458	467	350	294	274	286	218	1600	1320	916	677	214
19....	436	450	370	286	298	294	221	1710	1080	832	630	203
20....	424	432	407	298	314	318	228	1980	925	497	630	172
21....	424	436	374	318	290	366	232	2210	840	454	578	169
22....	415	432	382	298	294	428	243	2170	1030	432	584	162
23....	407	403	346	286	322	436	294	2150	1140	370	578	182
24....	403	386	338	270	294	463	691	2120	1270	314	553	214
25....	403	386	346	274	282	486	712	2010	1320	290	534	236
26....	403	374	322	274	259	458	756	1620	1220	298	565	278
27....	419	358	294	270	282	512	872	1270	1130	534	597	310
28....	415	378	330	290	266	523	880	1140	1200	793	476	251
29....	403	374	326	282	....	481	925	1490	1110	872	338	236
30....	419	382	330	278	....	481	907	1900	1120	1130	302	240
31....	394	....	338	278	....	458	....	1960	....	1190	298	....
Total	14680	12425	11123	9359	7782	10427	12874	46689	41045	22837	17050	7193
Mean.	474	414	359	302	278	336	429	1506	1368	737	550	240
Max..	770	492	407	370	322	523	925	2210	2000	1190	1160	326
Min...	394	350	294	259	225	225	218	979	840	290	278	162
Acre-ft.	29120	24640	22060	18560	15440	20680	25540	92610	81410	45300	33820	14270

Total run-off for water year 1938-39=423,400 acre-feet.

Discharge of Arkansas River at Canon City for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	207	196	251	310	240	302	90	146	1110	733	282	255
2....	169	165	255	306	225	262	102	159	1200	643	218	218
3....	165	162	236	290	220	247	102	159	1310	559	196	454
4....	156	172	207	270	220	221	100	149	1290	518	179	247
5....	146	189	221	290	220	210	96	179	1070	472	182	165
6....	146	189	221	370	220	221	100	270	872	432	179	152
7....	146	207	200	354	220	218	108	247	712	411	207	169
8....	152	203	186	350	220	207	98	251	656	342	189	189
9....	172	193	169	326	220	228	84	334	663	326	179	270
10....	182	207	162	270	225	247	82	342	934	302	169	274
11....	169	193	159	282	228	274	96	415	925	326	186	193
12....	172	186	159	278	240	270	90	571	962	302	189	182
13....	182	186	152	278	210	262	84	793	997	362	318	152
14....	189	182	156	262	207	282	86	778	1100	302	559	143
15....	162	165	189	240	274	262	84	623	952	338	547	146
16....	152	159	200	259	260	302	100	507	848	691	507	146
17....	169	140	218	278	240	362	133	808	770	719	523	156
18....	179	143	221	290	225	314	123	1260	785	684	507	156
19....	159	143	214	200	240	286	152	1040	848	636	553	162
20....	136	140	200	200	255	247	126	785	832	643	507	172
21....	133	165	203	250	235	196	110	832	778	793	523	176
22....	140	182	193	260	240	143	106	872	733	763	502	207
23....	140	165	196	260	250	152	100	785	916	756	670	193
24....	136	165	196	250	260	169	102	597	1070	643	497	362
25....	143	165	218	220	255	140	104	523	1020	390	415	390
26....	156	165	225	250	236	152	104	603	925	259	232	403
27....	165	189	210	290	255	121	123	756	916	247	207	330
28....	193	200	190	300	270	126	143	840	925	240	207	290
29....	221	232	210	290	298	119	159	925	856	247	214	262
30....	228	259	230	275	....	100	146	889	880	294	225	266
31....	216	....	278	255	....	84	....	880	....	318	259	....
Total	5175	5407	6325	8603	6908	6726	3233	18318	27845	14691	10327	6880
Mean.	167	180	204	278	238	217	108	591	928	474	333	229
Max..	228	259	278	370	298	362	159	1260	1310	793	670	454
Min...	133	140	152	200	207	84	82	146	656	240	169	143
Ac.-ft.	10260	10720	12550	17060	13700	13340	6410	36330	55230	29140	20480	13650

Total run-off for water year 1939-40=238,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Portland, Colo., for Year Ending Sept. 30, 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	....	1990	1140	1070	289
2....	....	....	....	....	....	....	....	....	1870	781	1170	268
3....	....	....	....	....	....	....	....	....	1590	757	900	247
4....	....	....	....	....	....	....	....	....	1440	749	824	235
5....	....	....	....	....	....	....	....	....	1590	630	814	215
6....	....	....	....	....	....	....	....	....	1920	549	843	182
7....	....	....	....	....	....	....	....	....	1920	515	624	175
8....	....	....	....	....	....	....	....	....	1630	749	435	205
9....	....	....	....	....	....	....	....	....	1390	1000	409	244
10....	....	....	....	....	....	....	....	....	1230	910	345	277
11....	....	....	....	....	....	....	....	....	1230	852	310	324
12....	....	....	....	....	....	....	....	....	1330	940	274	307
13....	....	....	....	....	....	....	....	....	1350	862	265	292
14....	....	....	....	....	....	....	....	....	1470	852	256	259
15....	....	....	....	....	....	....	....	....	1640	910	247	256
16....	....	....	....	....	....	....	....	....	1670	1090	256	230
17....	....	....	....	....	....	....	....	....	1540	1050	500	234
18....	....	....	....	....	....	....	....	....	1380	960	630	226
19....	....	....	....	....	....	....	....	....	1150	940	665	220
20....	....	....	....	....	....	....	....	1740	980	537	688	188
21....	....	....	....	....	....	....	....	....	843	465	561	178
22....	....	....	....	....	....	....	....	....	1020	450	549	168
23....	....	....	....	....	....	....	....	....	1210	401	543	178
24....	....	....	....	....	....	....	....	....	1320	334	515	211
25....	....	....	....	....	....	....	....	....	1370	307	510	235
26....	....	....	....	....	....	....	....	....	1260	320	515	268
27....	....	....	....	....	....	....	....	....	1160	510	561	301
28....	....	....	....	....	....	....	....	....	1290	824	460	274
29....	....	....	....	....	....	....	....	1300	1170	920	320	247
30....	....	....	....	....	....	....	....	1840	1180	1430	295	256
31....	....	....	....	....	....	....	....	1950	....	1300	292	....
Total	....	....	....	....	....	....	....	....	42133	24034	16646	7189
Mean.	....	....	....	....	....	....	....	....	1404	775	537	240
Max..	....	....	....	....	....	....	....	....	1990	1430	1170	324
Min...	....	....	....	....	....	....	....	....	843	307	247	168
Acre-ft.	....	....	....	....	....	....	....	....	83570	47670	33020	14260

Total run-off for water year 1938-39=178,520 acre-feet.

Discharge of Arkansas River at Portland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	253	259	283	277	283	292	98	148	1200	773	295	250
2....	199	229	283	286	268	262	103	142	1290	637	235	217
3....	188	229	271	283	241	244	114	148	1430	567	190	542
4....	178	238	232	274	256	190	104	114	1440	543	172	366
5....	175	253	244	286	250	180	100	133	1150	490	196	205
6....	170	244	238	389	244	200	131	220	1000	425	284	185
7....	162	250	226	413	259	214	150	235	733	397	232	178
8....	170	253	211	405	271	190	185	241	658	342	178	202
9....	188	244	208	385	244	225	178	317	658	314	193	314
10....	214	265	217	320	244	256	178	317	890	289	150	612
11....	223	256	208	331	265	262	205	365	970	314	175	259
12....	220	247	202	334	280	262	193	515	980	298	172	208
13....	220	253	190	334	238	232	175	805	1020	385	226	193
14....	232	241	188	304	223	241	136	910	1110	310	450	226
15....	226	229	205	280	286	241	122	741	1010	280	465	190
16....	211	223	226	280	283	253	122	531	940	665	445	185
17....	223	205	241	289	253	314	170	789	781	725	475	190
18....	229	208	244	271	238	295	162	1390	757	658	495	196
19....	214	205	235	196	271	265	162	1260	833	611	850	202
20....	196	202	223	211	271	253	188	890	824	611	520	202
21....	188	208	235	286	238	208	202	980	950	725	510	217
22....	188	226	232	280	259	180	196	1000	773	930	579	268
23....	182	229	229	289	274	178	140	900	862	733	680	351
24....	182	214	232	274	277	193	126	733	1180	618	495	417
25....	188	214	247	256	262	178	119	585	1070	465	460	479
26....	188	214	253	307	256	178	127	695	960	373	271	460
27....	199	226	232	381	265	155	129	881	920	256	217	397
28....	211	229	211	381	274	152	150	1110	940	241	202	381
29....	265	247	244	328	295	138	162	1110	862	259	220	331
30....	271	283	247	295	....	122	155	1040	881	304	223	334
31....	265	....	262	289	....	114	....	950	....	334	232	....
Total	6418	7023	7199	9514	7568	6667	4482	20195	29072	14872	10487	8757
Mean.	207	234	232	307	261	215	149	651	969	480	338	292
Max..	271	283	283	413	295	314	205	1390	1440	930	850	612
Min...	162	202	188	196	223	114	98	114	658	241	150	178
Ac.-ft.	12730	13930	14280	18870	15010	13220	8890	40060	57660	29500	20800	17370

Total run-off for water year 1939-40=262,320 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Pueblo, Colo., for Year Ending Sept. 30, 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	461	422	258	340	322	266	269	975	2130	944	1020	279
2....	395	408	305	347	329	267	252	1060	1880	678	1120	216
3....	292	436	322	322	317	308	269	1400	1590	623	873	189
4....	276	442	298	334	371	262	252	1470	1460	606	775	156
5....	276	451	288	346	428	260	244	1330	1430	530	701	124
6....	288	567	283	217	437	242	264	1320	1840	457	720	113
7....	269	490	273	241	379	232	301	1420	1910	442	641	115
8....	534	441	256	238	435	228	269	1400	1520	608	389	146
9....	704	532	266	311	427	208	239	1270	1360	836	321	193
10....	573	579	251	345	360	268	239	1170	1140	789	273	207
11....	518	571	303	283	381	271	239	1170	1060	718	238	251
12....	450	578	327	309	414	227	223	1260	1090	791	194	247
13....	553	530	318	287	393	239	192	1470	1330	763	163	240
14....	553	499	357	311	401	258	174	1390	1330	765	155	223
15....	527	513	351	357	361	258	239	1270	1600	755	152	191
16....	423	499	323	228	387	254	270	1340	1720	908	164	205
17....	401	507	421	262	348	245	239	1430	1600	884	251	221
18....	429	547	447	286	336	233	216	1370	1580	795	518	186
19....	435	538	358	286	343	250	198	1310	1220	834	565	139
20....	392	546	371	307	379	272	198	1820	886	561	751	125
21....	398	479	368	303	358	283	187	2180	759	399	516	90
22....	405	522	388	303	338	306	176	2120	806	361	497	68
23....	376	536	368	298	336	301	170	2020	1040	350	504	55
24....	368	519	354	296	332	301	334	1920	1030	265	482	122
25....	430	519	348	295	325	328	502	1850	1220	220	512	165
26....	458	527	347	290	282	291	570	1780	1130	220	473	168
27....	462	476	352	286	266	322	630	1250	1080	263	506	228
28....	431	485	354	301	267	359	749	1120	1010	601	498	237
29....	423	441	442	302	....	322	856	1110	1060	752	376	196
30....	437	309	426	281	....	317	877	1510	945	931	352	172
31....	422	....	365	306	....	305	....	1710	....	1410	343	....
Total	13359	14909	10488	9218	10052	8483	9837	45215	39756	20059	15043	5267
Mean.	431	497	338	297	359	274	328	1459	1325	647	485	176
Max..	704	579	447	357	437	359	877	2180	2130	1410	1120	279
Min...	269	309	251	217	266	208	170	975	759	220	152	55
Acre-ft.	26500	29570	20800	18280	19940	16830	19510	89680	78850	39790	29840	10450

Total run-off for water year 1938-39=400,000 acre-feet.

Discharge of Arkansas River Near Pueblo, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	181	187	213	204	362	213	20	84	994	658	186	233
2....	142	151	201	285	311	207	26	93	1100	552	140	223
3....	127	134	199	218	312	219	29	80	1270	648	124	199
4....	125	142	164	189	296	200	42	79	1340	471	83	903
5....	111	156	148	178	285	150	48	83	1180	493	78	210
6....	110	155	152	158	297	172	58	101	936	384	107	172
7....	135	146	152	286	287	155	90	172	748	339	299	124
8....	117	158	135	297	338	149	99	163	609	348	48	118
9....	136	159	128	294	347	148	104	197	633	227	52	185
10....	157	167	127	291	290	193	92	250	716	195	35	703
11....	174	173	218	289	333	220	115	254	884	166	27	320
12....	174	169	204	279	395	237	123	359	876	217	53	211
13....	163	165	195	267	356	196	117	613	977	255	41	199
14....	168	151	178	271	287	194	125	806	1040	292	240	298
15....	147	147	191	271	411	206	68	778	1050	200	362	247
16....	133	137	212	311	360	194	49	562	941	386	394	165
17....	122	125	224	357	249	237	78	602	826	625	379	154
18....	131	130	228	327	250	282	104	1060	678	541	446	167
19....	123	122	230	178	222	231	89	1100	727	559	686	174
20....	104	130	223	113	244	204	104	893	727	593	691	158
21....	91	132	221	135	221	156	137	776	689	588	494	153
22....	88	140	240	244	211	119	133	741	802	885	588	190
23....	78	155	253	236	237	102	121	796	715	615	578	246
24....	72	151	261	278	252	114	42	755	1090	569	502	628
25....	86	139	233	225	244	119	42	530	980	469	432	385
26....	108	140	221	191	214	110	44	554	931	304	346	567
27....	113	137	198	311	196	101	50	721	821	285	212	385
28....	115	148	176	264	201	90	64	976	815	168	184	331
29....	155	158	168	316	184	68	92	1250	767	143	177	287
30....	202	182	145	364	....	56	94	867	736	122	198	254
31....	206	....	166	414	....	21	....	777	....	186	216	....
Total	4094	4486	6004	8041	8192	5063	2399	17072	26601	12483	8398	8499
Mean.	132	150	194	259	282	163	80.0	551	887	403	271	283
Max..	206	187	261	414	411	282	137	1250	1340	885	691	903
Min...	72	122	127	113	184	21	20	79	609	122	27	118
Acre-ft.	8120	8900	11910	15950	16250	10040	4760	33860	52760	24760	16660	16860

Total run-off for water year 1939-40=220,830 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Avondale, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1....	....	....	....	....	....	....	....	1150	2080	1280	1240	272
2....	....	....	....	....	....	....	....	1240	2240	962	1530	256
3....	....	....	....	....	....	....	....	1400	1720	720	1390	244
4....	....	....	....	....	....	....	....	1600	1620	668	962	200
5....	....	....	....	....	....	....	....	1620	1580	652	899	159
6....	....	....	....	....	....	....	....	1520	1740	512	888	148
7....	....	....	....	....	....	....	....	1580	1910	464	855	145
8....	....	....	....	....	....	....	....	1580	1600	464	533	139
9....	....	....	....	....	....	....	....	1500	1520	822	394	139
10....	....	....	....	....	....	....	....	1400	1260	844	344	180
11....	....	....	....	....	....	....	....	1420	1240	780	306	224
12....	....	....	....	....	....	....	....	1400	1260	790	248	280
13....	....	....	....	....	....	....	....	1440	1320	800	212	252
14....	....	....	....	....	....	....	....	1650	1390	760	208	240
15....	....	....	....	....	....	....	....	1550	1600	790	208	216
16....	....	....	....	....	....	....	....	1470	1570	910	204	232
17....	....	....	....	....	....	....	....	1710	1580	1010	204	256
18....	....	....	....	....	....	....	....	1620	1440	923	434	228
19....	....	....	....	....	....	....	....	1870	1180	888	526	188
20....	....	....	....	....	....	....	....	1830	936	750	780	173
21....	....	....	....	....	....	....	....	1980	800	434	636	159
22....	....	....	....	....	....	....	....	2140	780	372	572	145
23....	....	....	....	....	....	....	....	1850	1010	355	564	133
24....	....	....	....	....	....	....	....	2000	1170	306	556	133
25....	....	....	....	....	....	....	....	1800	1340	244	596	145
26....	....	....	....	....	....	....	....	2040	1390	224	612	196
27....	....	....	....	....	....	....	....	1070	1320	216	526	228
28....	....	....	....	....	....	....	....	1290	1170	440	540	260
29....	....	....	....	....	....	....	....	1230	1470	811	452	244
30....	....	....	....	....	....	....	....	1710	1260	910	328	224
31....	....	....	....	....	....	....	....	2000	....	1650	491	....
Total	....	....	....	....	....	....	....	49660	42496	21751	18238	6038
Mean.	....	....	....	....	....	....	....	1602	1417	702	588	201
Max..	....	....	....	....	....	....	....	2140	2240	1650	1530	280
Min...	....	....	....	....	....	....	....	1070	780	216	204	133
Acre-ft.	....	....	....	....	....	....	....	98500	84290	43140	36170	11980

Total run-off for water year 1938-39=274,100 acre-feet.

Discharge of Arkansas River Near Avondale, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	196	220	228	344	458	338	60	94	1180	899	333	192
2....	192	200	236	344	394	388	50	95	1290	780	264	173
3....	184	176	232	360	388	355	65	92	1440	899	220	162
4....	180	173	228	382	388	344	115	90	1580	636	152	1520
5....	176	176	192	350	422	311	118	92	1690	692	92	292
6....	173	188	204	256	399	311	133	95	1530	512	88	162
7....	170	184	204	300	404	292	159	133	1240	416	236	130
8....	170	176	200	360	404	292	180	216	910	422	244	102
9....	166	184	188	372	410	276	196	188	692	311	188	80
10....	166	192	180	382	382	280	184	232	750	268	127	2040
11....	173	196	220	410	404	333	220	236	1110	200	110	452
12....	184	204	248	399	422	344	232	272	1000	240	102	355
13....	180	196	236	399	382	296	220	434	1070	244	98	264
14....	176	184	232	322	360	284	204	660	1100	272	88	366
15....	188	184	236	316	416	296	180	710	1200	192	306	512
16....	160	184	248	292	470	268	136	564	910	410	377	240
17....	145	176	268	377	410	256	162	512	949	604	360	196
18....	150	166	272	366	360	311	184	1030	700	588	491	184
19....	155	159	272	252	360	296	180	1290	750	548	649	188
20....	145	159	276	240	388	260	178	1100	790	564	1630	180
21....	138	166	268	196	377	244	178	910	750	604	498	176
22....	132	156	264	236	372	208	176	1000	899	1010	620	204
23....	127	170	268	236	394	180	170	988	692	676	790	256
24....	124	184	260	244	410	176	140	877	1000	644	652	730
25....	132	170	268	236	382	188	80	636	1050	484	533	612
26....	136	166	284	240	366	170	70	588	1000	416	440	740
27....	140	173	228	260	344	173	75	790	910	484	300	533
28....	155	180	228	355	360	152	82	1290	888	173	280	434
29....	170	184	192	428	328	145	94	3250	910	159	256	377
30....	212	196	240	452	....	127	97	1960	866	1510	236	333
31....	236	....	311	446	....	124	....	1520	....	410	212	....
Total	5131	5422	7411	10152	11354	8018	4318	21944	30846	16267	10972	12185
Mean.	166	181	239	327	392	259	144	708	1028	525	354	406
Max..	236	220	311	452	470	388	232	3250	1690	1510	1630	2040
Min...	124	156	180	196	328	124	50	90	692	159	88	80
Ac.-ft.	10180	10750	14700	20140	22520	15900	8560	43530	61180	32270	21760	24170

Total run-off for water year 1939-40=285,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Nepesta, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	565	416	242	169	186	110	464	506	1690	538	457	191
2....	529	389	286	140	184	184	384	520	1460	457	411	158
3....	394	374	416	120	212	186	341	676	1280	547	850	151
4....	311	405	283	100	181	151	320	798	1220	478	341	123
5....	311	389	220	52	212	153	324	772	1120	464	220	100
6....	316	583	257	151	234	60	360	709	1340	374	257	78
7....	300	506	251	169	257	50	433	882	1520	300	234	64
8....	365	471	236	217	226	60	450	914	1220	332	179	74
9....	914	632	226	332	200	70	360	811	1260	350	286	88
10....	798	733	202	279	200	200	360	610	914	269	212	112
11....	733	592	199	228	190	250	279	654	746	248	215	125
12....	610	621	239	248	179	200	276	798	698	194	162	138
13....	485	632	220	266	170	100	248	978	798	228	110	158
14....	464	654	153	155	150	248	248	1050	811	199	88	169
15....	428	687	204	155	60	457	316	962	898	189	74	174
16....	464	565	181	100	240	513	687	1100	1100	209	79	179
17....	422	621	184	75	428	428	547	1540	1120	389	79	164
18....	450	643	185	40	440	360	506	1500	978	389	85	174
19....	464	676	190	30	500	303	416	1600	811	286	76	153
20....	471	698	160	40	270	303	379	1840	632	286	416	121
21....	450	746	145	65	60	324	365	2080	687	365	196	112
22....	433	824	136	80	40	389	345	2280	520	324	110	94
23....	411	824	136	212	45	478	350	1890	471	263	107	82
24....	411	574	132	212	65	538	316	1690	471	248	119	83
25....	439	500	121	194	75	601	279	1770	574	184	78	76
26....	478	419	121	162	70	485	389	2550	654	164	207	90
27....	492	415	181	169	60	428	405	1180	621	144	66	82
28....	444	350	169	167	80	574	471	994	478	167	70	110
29....	416	345	263	220	....	478	574	994	583	162	100	107
30....	411	303	212	254	....	450	538	1220	643	245	90	138
31....	422	....	289	191	....	471	....	1580	....	547	276	....
Total	14601	16587	6439	4992	5214	9602	11730	37448	27318	9539	6250	3668
Mean.	471	553	208	161	186	310	391	1208	911	308	202	122
Max..	914	824	416	332	500	601	687	2550	1690	547	850	191
Min...	300	303	121	30	40	50	248	506	471	144	66	64
Acre-ft.	28960	32900	12770	9900	10340	19050	23270	74280	54180	18920	12400	7280

Total run-off for water year 1938-39=304,200 acre-feet.

Discharge of Arkansas River Near Nepesta, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	146	136	144	200	255	283	72	66	956	380	279	80
2....	125	141	167	215	250	362	45	66	1160	510	267	110
3....	120	149	155	230	260	348	55	62	1190	818	198	96
4....	70	125	170	220	245	317	62	66	1100	561	198	1070
5....	56	136	158	215	212	312	68	62	1230	579	98	365
6....	58	152	155	190	192	292	92	45	1120	494	48	232
7....	67	155	158	170	158	264	112	62	972	345	160	85
8....	69	146	146	180	152	242	140	174	626	345	189	26
9....	93	158	141	185	164	202	167	196	606	279	122	20
10....	91	179	146	200	176	212	174	170	678	198	37	2030
11....	100	173	155	210	170	307	218	209	517	149	30	615
12....	122	176	189	218	192	338	218	218	456	117	17	370
13....	122	170	173	215	235	283	237	293	456	126	18	300
14....	125	152	170	211	322	278	196	565	525	144	12	413
15....	125	167	176	208	411	269	189	660	570	222	18	988
16....	98	186	192	215	500	246	150	706	699	425	16	282
17....	91	212	196	222	376	212	185	489	699	174	16	169
18....	84	205	205	208	317	205	205	471	646	112	56	102
19....	103	192	227	160	292	241	170	950	615	78	192	104
20....	103	182	242	170	317	205	140	992	748	66	892	104
21....	103	199	212	200	292	200	133	648	748	124	222	83
22....	91	192	199	210	288	185	156	525	860	279	157	222
23....	86	144	176	202	338	150	156	516	646	340	419	149
24....	77	158	185	211	362	112	153	412	615	213	239	818
25....	69	144	200	180	397	118	115	516	525	98	133	657
26....	73	144	180	205	312	137	72	471	525	166	108	988
27....	96	144	150	220	333	127	66	671	479	720	88	390
28....	100	155	146	240	259	118	64	1020	360	385	42	370
29....	115	164	154	270	307	100	53	2750	380	133	63	275
30....	117	158	180	290	....	92	59	1360	315	940	49	310
31....	136	....	195	280	....	89	....	1170	....	305	58	....
Total	3031	4894	5442	6550	8084	6846	3922	16581	21022	9825	4441	11823
Mean.	97.8	163	176	211	279	221	131	535	701	317	143	394
Max..	146	212	242	290	500	362	237	2750	1230	940	892	2030
Min...	56	125	141	160	152	89	45	45	315	66	12	20
Acre-ft.	6010	9710	10790	12990	16030	13580	7780	32890	41700	19490	8810	23450

Total run-off for water year 1939-40=203,230 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at La Junta, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	252	218	186	111	110	108	28	275	674	256	148	53
2....	430	216	184	135	71	108	123	229	557	324	188	28
3....	270	277	189	102	65	111	127	236	1720	152	612	15
4....	225	285	158	97	47	108	129	332	667	122	404	28
5....	119	324	156	101	51	104	54	494	489	116	158	32
6....	97	316	174	96	76	108	64	458	448	96	90	52
7....	94	260	172	101	74	135	59	643	635	57	81	60
8....	134	257	142	131	63	131	38	607	642	46	65	60
9....	273	122	149	128	64	150	46	586	475	164	29	59
10....	444	60	135	134	79	137	80	465	450	94	44	58
11....	475	37	123	122	78	154	71	471	465	71	61	59
12....	450	46	124	119	94	154	70	559	414	53	61	58
13....	350	43	138	133	86	83	86	552	518	33	74	66
14....	310	40	129	149	80	21	104	586	611	27	66	68
15....	236	123	118	115	52	17	59	546	588	27	59	75
16....	221	124	126	108	40	13	99	489	583	40	64	81
17....	204	99	124	111	39	19	397	514	596	40	57	79
18....	175	80	122	117	150	19	386	465	473	37	48	80
19....	156	87	124	102	91	19	250	636	533	42	146	74
20....	186	97	132	113	79	18	164	587	576	34	728	69
21....	175	92	130	124	73	36	140	652	385	41	180	56
22....	211	113	126	128	86	109	102	637	294	44	88	61
23....	188	115	128	148	64	114	87	622	177	48	51	59
24....	143	126	111	198	46	129	82	490	128	57	9	66
25....	134	104	105	142	110	161	32	674	228	81	20	64
26....	138	253	91	138	111	203	14	1330	146	72	20	53
27....	161	410	90	145	99	220	14	233	220	61	24	53
28....	212	381	87	144	101	33	26	442	244	58	30	51
29....	244	306	83	128	....	25	41	530	171	58	35	58
30....	235	244	91	125	....	19	135	283	372	56	44	67
31....	211	....	110	145	....	30	....	354	....	50	55	....
Total	7153	5255	4057	3890	2179	2796	3107	15977	14479	2457	3739	1742
Mean.	231	175	131	125	77.8	90.2	104	515	483	79.3	121	58.1
Max..	475	410	189	198	150	220	397	1330	1720	324	728	81
Min...	94	37	83	96	39	13	14	229	128	27	9	15
Acre-ft.	14190	10420	8050	7720	4320	5550	6160	31690	28720	4870	7420	3460

Total run-off for water year 1938-39=132,600 acre-feet.

Discharge of Arkansas River at La Junta, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	69	7.4	9.4	39	131	20	13	33	394	35	199	54
2....	64	8.1	4.9	64	99	72	7.4	34	934	71	82	58
3....	55	7.4	3.6	124	63	67	8.1	21	697	67	28	59
4....	55	7.4	3.6	115	45	67	11	23	614	124	20	84
5....	46	5.5	2.8	86	37	48	6.8	30	314	76	33	489
6....	42	5.5	3.3	66	30	48	19	30	294	73	37	71
7....	40	6.2	3.6	158	28	88	12	35	275	57	46	4.7
8....	39	6.2	3.1	80	22	67	11	41	314	55	33	9.6
9....	49	7.4	6.8	54	15	35	5.5	14	265	37	36	14
10....	47	7.4	8.7	47	11	19	23	8.7	121	46	39	761
11....	45	6.2	7.4	64	14	21	23	25	91	49	42	61
12....	41	6.2	3.3	62	14	28	23	23	101	51	44	39
13....	40	5.5	11	76	11	93	22	30	115	51	42	86
14....	52	9.4	30	57	8.7	156	21	36	113	55	36	113
15....	53	12	22	28	3.3	106	16	94	92	62	36	364
16....	47	12	23	15	5.5	82	17	205	142	67	39	319
17....	45	13	28	12	3.3	42	46	226	152	93	40	57
18....	40	15	33	20	3.6	27	64	437	242	117	78	34
19....	36	14	45	29	14	16	76	294	170	46	168	9.6
20....	31	19	59	79	11	40	13	462	530	46	142	8.8
21....	28	17	60	57	8.7	67	6.2	462	128	53	152	7.1
22....	24	11	55	31	46	36	8.1	324	148	66	18	7.1
23....	16	11	71	22	63	48	7.4	184	238	60	7.1	8.8
24....	9.4	20	100	58	82	41	8.7	162	123	91	33	27
25....	5.5	19	97	35	126	27	7.4	107	75	91	22	663
26....	4.2	40	86	48	158	13	23	178	64	102	20	339
27....	4.9	36	72	10	117	11	32	152	23	325	27	456
28....	5.5	8.1	66	1.3	90	10	27	68	30	310	40	280
29....	5.5	3.3	71	2.8	67	5.5	32	679	58	122	48	117
30....	5.5	12	45	3.3	....	16	35	280	57	108	54	91
31....	5.5	....	49	28	....	16	....	344	....	544	56	....
Total	1050.0	358.2	1083.5	1571.4	1327.1	1432.5	624.6	5041.7	6914	3150	1697.1	4691.7
Mean.	33.9	11.9	35.0	50.7	45.8	46.2	20.8	163	230	102	54.7	156
Max..	69	40	100	158	158	156	76	679	934	544	199	761
Min...	4.2	3.3	2.8	1.3	3.3	5.5	5.5	8.7	23	35	7.1	4.7
Acre-ft.	2080	710	2150	3120	2630	2840	1240	10000	13710	6250	3370	9310

Total run-off for water year 1939-40=57,410 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Las Animas, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	31	14	20	66	56	51	14	14	324	13	177	11
2....	33	14	20	59	171	51	14	14	405	13	70	13
3....	29	14	20	53	194	68	14	14	442	14	29	22
4....	28	14	19	99	136	62	14	13	459	14	17	36
5....	30	14	22	112	128	60	14	14	442	66	13	176
6....	31	14	24	246	112	65	13	17	226	16	11	64
7....	32	14	27	99	112	68	12	18	240	17	10	25
8....	32	14	30	86	101	65	12	21	308	17	10	23
9....	39	14	32	81	80	65	11	23	262	27	8	23
10....	40	14	29	49	78	58	14	13	262	16	9	220
11....	39	14	26	51	75	58	19	11	117	27	17	681
12....	39	14	21	63	59	59	24	12	65	26	39	40
13....	39	14	18	71	54	60	29	12	52	20	45	37
14....	36	14	15	81	50	68	17	12	40	14	43	43
15....	36	15	16	67	48	95	22	12	40	13	44	59
16....	34	16	18	42	46	71	28	21	40	11	42	299
17....	34	16	18	37	45	46	68	144	56	13	30	115
18....	36	15	18	40	49	43	70	220	82	52	25	35
19....	34	15	17	123	50	41	50	233	153	65	78	21
20....	36	15	22	52	52	36	78	223	70	40	97	17
21....	37	15	24	42	54	32	70	312	36	30	146	18
22....	31	16	37	41	56	24	52	292	31	25	44	16
23....	25	17	56	43	64	19	40	164	60	18	17	12
24....	18	18	69	41	73	17	28	124	130	26	14	14
25....	18	19	59	40	103	17	18	111	52	45	12	276
26....	18	19	141	41	132	16	17	78	40	45	11	338
27....	15	18	63	43	132	15	17	207	33	169	10	453
28....	14	25	79	45	101	14	15	186	24	213	8	342
29....	14	20	56	46	56	12	14	242	21	105	10	204
30....	14	20	59	43	....	14	14	822	16	45	11	156
31....	14	....	67	46	....	14	....	312	....	350	12	....
Total	906	475	1142	2048	2467	1384	822	3911	4528	1565	1109	3789
Mean.	29.2	15.8	36.8	66.1	85.1	44.6	27.4	126	151	50.5	35.8	126
Max..	40	25	141	246	194	95	78	822	459	350	177	681
Min...	14	14	15	40	45	12	11	11	16	11	8	11
Acre-ft.	1800	942	2270	4060	4890	2750	1630	7760	8980	3100	2200	7520

Total run-off for water year 1939-40=47,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Caddoa, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	248	210	340	168	156	190	111	60	668	1080	125	41
2....	232	198	320	168	168	195	133	115	736	844	138	32
3....	375	225	315	180	110	200	185	196	572	514	138	28
4....	270	270	312	180	110	200	202	202	488	352	232	23
5....	225	270	278	146	136	210	142	274	572	198	286	22
6....	162	348	312	140	126	245	128	283	540	81	277	21
7....	118	348	285	140	136	291	146	402	604	38	125	24
8....	112	396	255	162	143	308	146	478	700	30	44	24
9....	115	375	240	192	125	308	137	528	636	306	30	29
10....	348	262	255	198	130	308	115	540	462	241	18	30
11....	504	174	240	204	145	317	133	515	398	103	15	32
12....	459	150	210	218	165	308	142	454	398	38	14	32
13....	417	143	198	204	170	308	142	478	376	16	12	30
14....	348	136	198	204	165	291	128	478	449	15	21	29
15....	312	129	198	218	150	238	137	515	604	12	30	30
16....	248	143	198	168	146	224	115	501	572	5	16	41
17....	225	150	240	143	108	163	92	488	572	7	631	53
18....	210	129	262	126	186	168	267	514	556	58	87	53
19....	204	115	248	132	240	157	238	423	501	44	12	44
20....	204	136	262	146	156	137	216	588	501	18	1080	41
21....	204	150	255	168	140	128	174	572	488	12	1490	41
22....	204	174	240	198	140	120	137	652	387	10	674	35
23....	204	186	225	192	125	163	106	668	306	9	392	32
24....	255	175	218	186	110	245	89	540	152	12	196	38
25....	210	190	218	204	140	283	76	540	72	107	120	41
26....	192	230	186	174	160	351	65	1820	103	69	96	44
27....	180	300	174	180	190	381	60	1560	92	23	102	44
28....	180	380	180	192	200	360	56	398	114	33	238	35
29....	218	430	192	192	....	231	56	387	175	30	92	33
30....	248	390	180	162	....	180	53	652	341	40	60	33
31....	248	....	168	156	....	133	....	604	....	92	51	....
Total	7679	6912	7402	5441	4176	7341	3927	16425	13135	4437	6842	1035
Mean.	248	230	239	176	149	237	131	530	438	143	221	34.5
Max..	504	430	340	218	240	381	267	1820	736	1080	1490	53
Min...	112	115	168	126	108	120	53	60	72	5	12	21
Acre-ft.	15230	13710	14680	10790	8280	14560	7790	32580	26050	8800	13570	2050

Total run-off for water year 1938-39=168,100 acre-feet.

Discharge of Arkansas River at Caddoa, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	40	23	63	202	58	158	50	33	450	25	222	10
2....	41	23	53	180	76	177	45	31	373	29	115	9
3....	43	27	46	180	86	173	35	29	533	87	62	8
4....	40	27	46	202	99	163	33	29	470	58	40	17
5....	40	26	43	191	111	135	31	24	1050	40	35	41
6....	43	25	40	137	128	124	33	22	561	54	68	131
7....	46	26	35	102	146	108	45	22	382	28	46	42
8....	51	28	32	86	128	116	45	77	346	19	27	15
9....	56	29	32	102	163	109	42	60	533	27	17	9
10....	58	33	30	92	180	87	42	47	1930	27	13	31
11....	63	33	28	68	168	70	60	35	1360	18	18	3460
12....	60	33	26	65	157	58	70	29	500	27	18	824
13....	58	33	28	80	202	63	63	28	282	22	27	315
14....	51	30	32	86	174	60	53	28	192	31	24	276
15....	48	29	33	96	128	108	37	28	149	31	19	153
16....	48	29	36	76	137	108	35	26	100	18	19	334
17....	48	29	32	70	124	101	60	73	75	22	316	328
18....	56	29	30	65	120	94	83	194	80	11	448	169
19....	58	32	40	65	157	83	120	242	112	30	307	94
20....	60	33	43	65	202	63	112	194	118	31	638	72
21....	58	40	63	65	192	58	144	230	72	21	256	48
22....	56	41	51	65	182	58	242	310	47	19	177	40
23....	51	43	186	63	172	58	177	296	56	82	87	30
24....	44	41	252	63	162	58	154	450	153	38	120	30
25....	40	41	274	60	152	55	124	269	131	25	120	86
26....	36	48	308	60	142	55	87	230	77	27	83	448
27....	29	59	360	58	132	50	66	283	50	409	53	402
28....	28	80	308	56	122	60	53	930	38	266	28	380
29....	26	80	260	51	112	66	47	511	30	156	20	293
30....	26	86	209	46	....	70	47	1020	25	97	17	216
31....	26	....	260	53	....	70	....	430	....	216	15	....
Total	1428	1135	3279	2850	4112	2816	2235	6210	10275	1991	3455	8311
Mean.	46.1	37.8	106	91.9	142	90.8	74.5	200	342	64.2	111	277
Max..	63	86	360	202	202	177	242	1020	1930	409	638	3460
Min...	26	23	26	46	58	50	31	22	25	11	13	8
Acre-ft.	2830	2250	6500	5650	8160	5590	4430	12320	20380	3950	6850	16480

Total run-off for water year 1939-40=95,390 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Lamar, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.9	3.2	126	18	7.0	44	9.4	7.9	12	22	5.0	5.0
2....	7.5	3.2	37	6.7	8.3	41	13	15	10	5.0	24	4.4
3....	7.1	3.6	32	5.4	16	50	13	23	6.3	3.0	36	3.8
4....	5.6	3.3	8.9	6.4	12	66	6.8	12	5.5	1.6	62	7.4
5....	4.0	3.2	6.0	9.6	10	56	6.3	15	5.2	1.8	60	4.1
6....	3.0	3.6	4.2	8.6	10	53	5.5	13	5.2	1.8	60	4.1
7....	3.0	3.0	4.4	8.3	8.3	77	5.2	12	5.5	1.4	56	3.8
8....	3.0	3.0	4.4	10	7.3	50	5.2	12	5.8	2.2	25	3.3
9....	3.2	14	4.7	12	16	30	4.7	10	8.9	2.0	5.5	2.8
10....	3.8	18	4.0	11	16	31	4.7	8.9	4.4	5.2	2.8	2.6
11....	9.6	7.5	3.7	9.6	16	23	5.5	8.4	3.8	16	2.4	.8
12....	6.2	5.6	3.5	14	16	20	7.4	5.2	3.6	16	2.2	1.0
13....	5.6	5.0	3.5	10	18	22	8.9	6.3	3.8	13	2.0	1.0
14....	4.8	4.3	4.0	18	23	30	9.4	5.8	4.7	5.8	2.4	.7
15....	4.8	3.8	4.9	50	41	30	8.9	8.4	4.1	4.4	1.8	.7
16....	5.0	3.8	12	41	20	25	8.4	5.0	3.8	3.3	1.8	1.0
17....	5.3	4.0	7.3	14	20	20	7.9	3.8	3.3	3.3	6.8	2.0
18....	5.3	4.0	11	12	20	20	8.4	3.8	4.4	2.8	4.7	2.4
19....	3.0	4.0	30	8.9	15	5.8	7.9	5.0	4.1	7.4	5.2	2.4
20....	3.0	4.3	27	9.6	12	5.8	8.4	4.4	5.8	5.0	62	2.2
21....	3.0	4.6	26	10	155	18	7.9	3.8	19	2.6	51	2.0
22....	3.2	4.0	45	8.3	101	18	7.4	5.2	17	1.8	3.0	1.8
23....	2.8	3.2	62	7.3	44	18	6.8	5.2	22	1.6	2.2	1.8
24....	2.8	6.6	133	6.4	30	18	5.8	3.6	20	1.4	8.9	1.8
25....	2.8	15	116	6.7	42	18	5.8	3.6	22	3.3	10	1.8
26....	4.3	11	92	10	33	17	5.8	62	20	5.5	10	2.2
27....	3.8	15	111	14	14	18	5.0	83	22	4.4	7.9	2.6
28....	3.6	20	136	8.3	26	30	5.0	18	21	4.1	12	2.8
29....	3.6	102	113	8.0	....	35	4.7	10	23	3.3	24	2.2
30....	3.8	136	118	8.0	....	30	5.2	8.9	14	2.6	15	2.6
31....	3.6	....	57	7.3	....	17	....	6.8	....	2.0	10	....
Total	138.0	421.8	1347.5	377.4	756.9	936.6	214.3	395.0	310.2	155.6	581.6	77.1
Mean.	4.45	14.1	43.5	12.2	27.0	30.2	7.14	12.7	10.3	5.02	18.8	2.57
Max..	9.6	136	136	50	155	77	13	83	23	22	62	7.4
Min...	2.8	3.0	3.5	5.4	7.3	5.8	4.7	3.6	3.3	1.4	1.8	.7
Acre-ft.	274	837	2670	749	1500	1860	425	783	615	309	1150	153

Total run-off for water year 1938-39=11,320 acre-feet.

Discharge of Arkansas River at Lamar, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.2	2.2	2.4	2.6	5.2	5.2	2.2	2.4	17	4.0	108	1.0
2....	2.2	1.6	2.8	2.8	5.2	24	2.4	2.6	14	3.1	73	1.0
3....	2.2	1.8	2.8	3.0	5.2	6.8	2.4	2.6	14	2.5	52	1.3
4....	2.4	1.8	3.0	3.0	5.2	6.3	2.4	2.6	14	12	30	0.9
5....	2.4	1.8	3.6	3.0	5.5	6.8	2.4	2.2	124	9.0	25	0.9
6....	2.4	2.2	4.4	3.0	5.5	7.4	2.4	1.8	397	3.7	29	1.9
7....	2.6	2.4	3.8	3.0	5.2	5.8	2.4	1.8	34	3.7	46	1.0
8....	2.6	2.6	3.8	3.0	6.3	6.3	2.4	3.0	32	1.9	42	0.8
9....	2.6	2.6	3.6	3.8	6.3	6.8	2.4	2.0	13	3.4	17	0.7
10....	2.6	3.0	3.3	3.8	4.1	5.5	2.4	2.0	132	1.6	12	4.0
11....	2.6	3.0	3.0	3.3	4.4	5.5	2.4	1.9	1270	1.6	9.0	724
12....	2.6	2.8	2.8	3.3	7.9	5.5	2.4	2.2	156	1.6	6.5	342
13....	4.1	2.8	2.6	3.8	8.4	5.8	2.4	2.2	33	1.6	9.0	37
14....	4.1	2.6	2.6	5.2	5.8	5.5	2.4	2.4	21	1.6	4.0	20
15....	4.1	2.8	2.6	6.3	5.2	5.2	2.4	2.4	6	1.6	6.5	11
16....	4.1	2.6	2.6	5.8	4.7	5.2	2.4	2.8	2	1.6	6.5	10
17....	4.4	2.4	2.6	3.8	2.2	4.4	2.6	3.3	2	0.9	6.5	7.5
18....	4.1	2.4	2.8	3.8	3.6	4.1	2.8	3.3	2	0.7	39	5.8
19....	3.8	2.4	2.8	3.0	3.3	3.8	5.2	3.0	2	0.7	116	5.8
20....	3.0	2.2	2.8	3.0	3.6	3.6	2.6	3.3	2	0.7	255	5.0
21....	1.6	2.2	2.8	3.5	4.4	3.6	2.6	3.6	2	1.9	8.0	4.6
22....	1.8	2.2	3.6	3.5	4.4	3.3	2.6	2.4	3.1	2.5	4.5	3.8
23....	1.6	2.0	4.1	3.5	3.0	3.0	2.6	2.6	2.8	1.6	4.5	5.0
24....	1.6	2.0	3.3	3.5	3.3	3.0	2.6	2.6	2.5	12	7.0	4.0
25....	1.4	2.0	3	3.0	3.8	2.8	2.6	2.6	21	7.5	34	3.0
26....	1.0	2.0	3	3.5	5.0	2.8	2.6	2.5	16	6.5	33	3.0
27....	2.8	2.2	3	5.2	4.4	2.8	2.6	16	12	21	13	3.0
28....	2.8	2.4	2	4.4	3.8	2.8	2.6	185	9.0	24	3.7	3.8
29....	2.6	2.4	3	5.2	3.6	2.4	2.6	73	6.5	48	2.8	2.8
30....	2.6	2.4	3	6.3	....	2.2	2.0	146	4.5	48	2.8	3.8
31....	2.2	....	2.8	6.8	....	2.2	....	26	....	48	2.8	....
Total	83.1	69.8	94.3	120.7	138.5	160.4	76.8	512.0	2366.4	278.5	1008.1	1218.4
Mean.	2.68	2.33	3.04	3.89	4.78	5.17	2.56	16.5	78.9	8.98	32.5	40.6
Max..	4.4	3.0	4.4	6.8	8.4	24	5.2	185	1270	48	255	724
Min...	1.0	1.6	2.0	2.6	2.2	2.2	2.0	1.8	2	0.7	2.8	0.7
Acre-ft.	165	138	187	239	275	318	152	1020	4690	552	2000	2420

Total run-off for water year 1939-40=12,160 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Holly, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	24	52	205	144	102	130	138	29	62	27	2.4	6.0
2....	21	54	198	140	92	130	102	28	89	114	1.8	5.6
3....	28	67	143	140	99	135	96	32	53	67	2.0	5.6
4....	19	75	109	140	106	146	89	31	46	22	1.8	5.6
5....	36	89	198	135	99	150	82	30	36	14	1.4	6.4
6....	50	96	138	140	92	160	92	31	21	13	2.0	6.4
7....	44	75	121	150	96	200	99	28	15	11	7.6	4.2
8....	40	127	89	160	64	250	82	26	8.8	11	1.6	3.8
9....	67	159	92	170	69	300	89	22	10	10	1.6	2.7
10....	26	143	89	170	54	339	78	21	12	10	1.2	2.0
11....	22	138	64	180	64	350	64	21	12	7.6	1.8	1.6
12....	16	99	109	180	71	350	58	23	11	2.0	1.4	1.1
13....	28	85	102	180	89	402	58	28	7.9	1.6	1.0	0.8
14....	34	80	73	184	127	610	58	28	5.6	1.4	1.0	1.0
15....	22	82	89	181	82	389	56	29	4.5	1.2	1.0	1.8
16....	34	80	82	181	170	428	60	35	4.9	1.0	1.0	4.2
17....	37	82	89	180	212	198	62	55	4.5	0.8	0.6	6.0
18....	31	75	85	180	127	184	58	31	4.5	1.6	0.5	7.2
19....	34	73	102	180	184	132	50	26	3.8	1.0	0.4	7.2
20....	36	75	89	185	191	109	54	28	2.7	1.1	0.4	6.8
21....	37	73	99	185	165	109	54	28	2.4	1.2	28	5.6
22....	42	69	92	190	113	138	31	25	3.1	1.4	18	7.6
23....	46	50	106	190	184	205	30	17	7.2	1.2	1.8	7.2
24....	56	48	113	190	219	226	36	13	18	2.0	0.8	6.8
25....	58	56	132	190	165	273	28	13	19	2.7	0.6	6.0
26....	50	64	127	200	148	233	21	164	20	2.0	9.5	6.8
27....	42	70	100	251	149	212	20	284	14	2.0	0.4	7.2
28....	44	80	110	240	140	177	22	290	24	1.7	0.4	7.2
29....	48	87	120	212	....	165	20	89	26	2.4	0.3	6.4
30....	60	89	130	191	....	295	20	55	26	2.0	3.1	7.2
31....	60	....	140	121	....	212	....	51	....	2.4	6.0	....
Total	1192	2492	3535	5460	3473	7237	1807	1611	573.9	339.3	101.4	154.0
Mean.	38.5	83.1	114	176	124	237	60.2	52.0	19.1	10.9	3.27	5.13
Max..	67	159	205	251	219	610	138	290	89	114	28	7.6
Min...	16	48	64	121	54	109	20	13	2.4	0.8	0.3	0.8
Acre-ft.	2360	4940	7010	10830	6890	14550	3580	3200	1140	673	201	305

Total run-off for water year 1938-39=55,679 acre-feet.

Discharge of Arkansas River at Holly, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	3.0	3.4	1.8	12	48	29	3.0	115	3.4	0.2	2.1
2....	12	3.0	3.4	2.1	17	54	23	4.4	62	3.4	0.2	2.1
3....	14	4.4	2.5	2.5	20	66	20	9.2	56	3.9	0.2	2.1
4....	13	4.4	2.3	2.1	20	58	19	23	40	3.9	0.2	2.1
5....	13	3.0	2.5	3.0	25	54	18	11	44	3.0	0.2	28
6....	11	3.4	3.4	4.8	25	54	20	14	296	3.0	0.2	147
7....	5.3	3.9	3.9	5.8	25	50	20	15	209	2.5	0.7	25
8....	2.5	4.8	4.4	11	30	52	19	88	108	2.5	237	5.8
9....	1.6	4.8	3.9	14	12	52	20	39	98	2.1	1.0	3.4
10....	2.1	2.3	3.9	14	38	41	17	34	139	1.6	0.3	3.4
11....	2.1	3.0	3.4	7.9	44	41	7.9	28	457	1.4	0.3	3.4
12....	2.3	3.0	2.5	4.4	44	31	9.2	31	307	1.4	0.2	966
13....	2.3	3.4	3.0	5.3	66	26	13	28	204	1.2	0.2	164
14....	2.3	3.9	3.4	5.3	69	34	9.9	19	160	0.7	0.1	27
15....	2.5	3.9	3.4	5.6	64	36	9.2	20	95	0.7	0.1	12
16....	1.8	3.9	3.9	6.4	52	32	6.7	22	76	1.0	0.1	6.7
17....	2.3	3.9	4.8	5.8	60	31	5.3	20	44	0.5	433	3.4
18....	2.5	3.9	5.8	4.9	60	36	5.8	52	38	0.5	8.6	3.0
19....	1.8	3.9	3.0	3.7	62	34	9.9	24	38	0.5	5.3	2.5
20....	2.1	4.4	3.9	3.9	56	28	8.6	39	38	0.5	3.4	2.1
21....	1.8	4.4	5.3	4.2	52	28	7.2	5.3	21	0.5	4.4	2.1
22....	2.5	4.4	3.0	4.2	52	29	5.3	3.4	15	1.0	3.4	2.1
23....	3.0	4.4	7.2	4.2	54	22	4.8	5.8	13	1.0	3.0	2.1
24....	3.0	4.8	2.5	4.2	46	29	8.6	9.9	11	0.7	2.5	3.4
25....	3.0	4.4	2.3	4.4	58	36	6.3	11	9.2	0.5	3.0	3.4
26....	2.5	3.4	2.3	6.4	58	34	7.2	17	7.2	0.5	3.0	3.4
27....	2.3	3.4	2.5	10	52	34	14	24	4.8	0.7	2.3	3.4
28....	2.3	3.4	2.0	12	46	32	11	313	4.8	0.5	1.8	3.4
29....	2.1	3.4	2.2	11	48	26	5.8	471	3.9	0.5	1.6	3.4
30....	2.1	3.4	2.2	12	....	20	4.4	130	3.9	0.5	2.1	9.9
31....	3.0	....	2.1	12	....	25	....	164	....	0.3	2.3	....
Total	137.1	113.6	104.3	198.9	1267	1173	365.1	1678.0	2717.8	44.4	720.9	1447.7
Mean.	4.42	3.79	3.36	6.42	43.7	37.8	12.2	54.1	90.6	1.43	23.3	48.3
Max..	14	4.8	7.2	14	69	66	29	471	457	3.9	433	966
Min...	1.6	2.3	2.0	1.8	12	20	4.4	3.0	3.9	0.3	0.1	2.1
Acre-ft.	272	225	207	395	2510	2330	724	3330	5390	88	1430	2870

Total run-off for water year 1939-40=19,770 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Arkansas River Near Salida, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	26	60	54	60	55	30	56	11	1.3	1.6	1.6
2....	9.2	27	60	52	60	55	30	62	8.0	1.2	3.8	1.8
3....	6.8	27	59	53	60	55	33	54	5.2	1.3	6.0	1.6
4....	5.7	31	59	50	60	55	33	52	5.2	1.2	2.4	1.5
5....	6.0	30	58	62	60	55	28	75	5.7	1.0	2.4	1.6
6....	6.4	28	58	54	64	55	31	80	6.8	1.5	2.4	2.4
7....	38	50	54	44	64	55	23	60	3.8	1.4	3.1	2.6
8....	84	59	54	39	64	55	24	54	3.2	1.2	2.8	2.6
9....	58	69	54	35	64	55	26	60	3.1	1.4	1.9	1.9
10....	48	71	56	36	64	55	23	101	3.2	1.3	1.7	1.6
11....	59	71	59	38	60	48	17	86	2.6	1.3	1.7	2.2
12....	52	69	59	38	60	52	20	78	2.5	1.3	1.9	1.6
13....	47	76	67	40	60	46	19	54	1.8	1.4	2.9	1.6
14....	48	73	59	55	60	46	19	53	1.7	1.5	2.5	1.6
15....	52	71	56	55	60	53	17	60	1.9	1.7	2.8	1.6
16....	47	71	48	55	60	48	14	60	2.2	1.4	2.8	1.7
17....	50	71	66	55	60	39	11	48	2.4	1.4	2.2	1.7
18....	48	67	54	55	60	42	8.0	52	2.8	1.2	2.1	1.7
19....	50	71	54	55	60	40	9.6	71	3.2	1.2	2.4	1.7
20....	47	71	54	55	60	44	5.4	78	2.1	1.3	2.6	1.7
21....	47	62	64	60	60	46	4.9	78	1.6	1.4	3.2	1.8
22....	46	60	62	60	60	37	5.2	84	1.6	1.6	2.4	1.7
23....	38	52	62	60	60	39	7.6	73	1.8	1.4	2.2	2.1
24....	34	54	76	60	60	37	9.6	54	0.8	1.3	1.4	2.1
25....	29	56	67	60	60	32	7.2	47	0.8	1.2	1.4	1.8
26....	28	56	67	60	60	31	5.7	32	0.9	1.4	1.7	1.8
27....	29	58	62	60	60	32	7.2	28	0.8	1.5	1.9	1.8
28....	28	60	59	47	60	25	14	21	1.3	1.5	2.2	1.9
29....	28	64	67	50	....	27	35	13	1.5	1.7	1.9	2.1
30....	27	71	73	54	....	23	34	8.8	1.4	3.5	2.2	2.4
31....	26	....	59	62	....	25	....	7.6	....	2.1	1.9	....
Total	1136.1	1722	1866	1613	1700	1362	551.4	1740.4	90.9	45.1	74.4	55.8
Mean.	36.6	57.4	60.2	52.0	60.7	43.9	18.4	56.1	3.03	1.45	2.40	1.86
Max..	84	76	76	62	....	55	35	101	11	3.5	6.0	2.6
Min...	5.7	26	48	35	....	23	4.9	7.6	0.8	1.0	1.4	1.5
Acre-ft.	2250	3420	3700	3200	3370	2700	1090	3450	180	89	148	111

Total run-off for water year 1938-39=23,710 acre-feet.

Discharge of South Arkansas River Near Salida, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.2	3.3	17	40	55	30	4.8	1.8	4.8	2.7	2.5	7.0
2....	1.8	2.5	16	36	54	22	5.1	2.0	3.1	2.7	2.5	6.4
3....	1.7	1.8	15	36	52	34	4.2	2.0	2.7	3.3	2.2	5.6
4....	2.0	2.5	17	33	52	37	4.0	4.2	1.8	3.3	1.5	4.6
5....	2.4	2.5	17	34	52	36	4.0	49	2.4	3.5	1.3	4.4
6....	2.4	3.1	16	32	51	37	4.0	44	2.9	3.3	1.7	3.8
7....	2.4	3.1	12	35	52	34	3.8	12	2.9	3.3	8.6	3.8
8....	2.4	3.1	12	38	52	31	3.5	8.9	3.1	3.1	7.8	5.9
9....	2.5	3.5	14	47	51	25	3.1	6.2	3.5	3.3	3.8	5.1
10....	2.4	4.4	14	33	54	24	2.9	5.3	3.5	3.3	3.1	4.0
11....	2.4	4.6	12	40	51	18	2.9	6.4	3.3	3.1	2.7	4.0
12....	2.4	4.6	12	39	45	18	2.7	8.2	3.3	2.4	2.9	4.2
13....	2.2	4.8	12	41	40	18	3.3	5.9	3.1	4.8	3.8	4.2
14....	2.4	5.3	21	46	41	18	3.5	6.2	3.1	6.2	2.5	3.8
15....	2.4	5.3	25	44	39	16	3.5	6.7	3.3	3.1	2.4	3.8
16....	2.4	5.1	25	50	41	11	3.1	8.6	3.5	3.1	2.2	3.3
17....	2.2	5.1	31	24	41	8.9	4.6	16	3.3	3.8	2.4	3.3
18....	2.2	5.3	28	34	42	7.8	3.3	24	3.1	2.9	2.5	3.5
19....	2.4	5.3	23	31	42	8.6	2.7	12	3.1	1.5	4.2	3.3
20....	2.4	5.3	23	33	41	7.8	2.2	7.8	3.3	0.8	5.3	3.5
21....	2.5	5.6	24	35	40	7.5	2.5	8.6	3.5	0.6	5.9	3.8
22....	2.9	4.8	21	38	40	6.7	2.2	9.6	3.8	0.5	10	3.8
23....	2.5	4.4	24	39	39	6.4	2.0	6.4	3.3	0.5	28	4.0
24....	2.7	4.4	31	41	38	6.4	1.7	5.9	3.1	0.6	12	6.4
25....	1.8	6.4	31	42	37	6.2	1.7	5.1	2.7	1.0	13	3.8
26....	2.0	7.2	22	42	35	4.8	1.5	6.2	2.7	2.7	12	3.8
27....	2.0	8.9	24	45	35	5.1	2.4	4.8	2.5	2.4	9.6	3.3
28....	2.4	8.9	26	52	34	5.1	2.2	4.8	2.7	2.0	7.8	2.9
29....	3.1	14	30	56	33	5.1	2.0	4.0	2.2	2.2	7.5	2.9
30....	4.4	18	31	56	....	4.6	2.0	4.2	2.0	2.0	7.0	2.9
31....	3.5	....	39	55	....	4.4	....	4.8	....	2.4	7.0	....
Total	75.4	163.1	665	1247	1279	504.4	91.4	301.6	91.6	80.4	185.7	125.1
Mean.	2.43	5.44	21.5	40.2	44.1	16.3	3.05	9.73	3.05	2.59	5.99	4.17
Max..	4.4	18	39	56	55	37	5.1	49	4.8	6.2	28	7.0
Min...	1.7	1.8	12	24	33	4.4	1.5	1.8	1.8	0.5	1.3	2.9
Acre-ft.	150	324	1320	2470	2540	1000	181	598	182	159	368	248

Total run-off for water year 1939-40—9,540 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Grape Creek Near Westcliffe, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	17	20	....	....	....	24	48	34	18	3.5	8.4	5.1
2....	16	20	....	....	....	22	43	36	27	3.5	14	5.1
3....	16	20	*18	....	....	20	43	40	25	3.7	12	4.0
4....	16	20	....	....	....	18	44	37	19	3.5	9.5	3.5
5....	16	21	....	....	....	18	45	32	21	3.2	9.5	3.5
6....	16	20	....	....	....	18	43	29	20	3.0	9.0	3.7
7....	16	28	....	....	....	18	53	26	15	2.4	11	3.7
8....	40	52	....	....	....	20	49	24	11	2.7	19	4.0
9....	34	33	....	....	....	20	36	21	7.3	2.4	10	5.1
10....	25	46	....	....	....	24	32	19	5.1	2.2	7.3	4.6
11....	21	42	....	....	....	28	32	20	5.0	1.7	6.8	4.0
12....	20	40	....	....	....	36	35	24	4.5	1.7	6.8	4.0
13....	18	39	....	....	....	40	32	31	4.0	1.7	5.6	3.7
14....	18	39	....	....	....	42	32	28	3.5	1.9	5.6	3.5
15....	18	40	....	....	....	48	34	23	3.0	2.2	5.1	5.1
16....	18	41	....	....	....	46	39	21	2.4	1.9	6.2	6.8
17....	18	33	....	....	....	46	36	22	2.7	1.9	4.6	5.6
18....	18	32	....	....	*15	48	37	18	2.7	1.9	4.0	4.6
19....	22	41	....	....	....	52	32	17	3.0	1.7	5.1	4.0
20....	21	30	....	*10	....	54	30	22	3.2	1.4	14	4.0
21....	21	29	....	....	....	52	27	16	3.0	1.4	9.0	4.0
22....	21	29	....	....	....	55	25	15	2.7	1.4	8.4	3.7
23....	21	27	....	....	....	58	25	13	2.7	1.4	7.3	3.7
24....	20	25	....	....	....	86	30	11	2.7	1.4	5.1	3.7
25....	20	29	....	....	....	166	28	14	2.4	1.7	5.6	4.0
26....	20	25	....	....	....	59	25	70	2.4	2.4	6.8	3.0
27....	20	20	....	....	....	88	25	37	2.7	3.7	7.8	3.2
28....	20	20	....	....	....	71	24	20	2.7	5.1	6.8	3.2
29....	20	20	....	....	....	56	27	15	2.7	8.4	6.2	3.2
30....	20	20	....	....	....	71	30	13	2.7	7.3	6.2	4.0
31....	20	....	....	....	....	58	....	15	....	9.5	5.6	....
Total	627	901	465	372	420	1462	1041	763	229.1	91.8	248.3	123.3
Mean.	20.2	30.0	15	12	15	47.2	34.7	24.6	7.64	2.96	8.01	4.11
Max..	40	52	....	....	....	166	53	70	27	9.5	19	6.8
Min...	16	20	....	....	....	18	24	11	2.4	1.4	4.0	3.0
Acre-ft.	1240	1790	922	738	833	2900	2060	1510	454	182	492	245

Total run-off for water year 1938-39=13,366 acre-feet.

*Discharge measurement.

Discharge of Grape Creek Near Westcliffe, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.7	9.0	10	....	....	41	13	8.4	16	3.7	4.6	4.6
2....	3.5	8.4	13	....	....	38	13	7.3	14	3.2	4.6	3.7
3....	4.0	8.4	15	....	....	34	12	6.2	12	3.5	5.1	4.0
4....	3.5	9.0	18	....	....	38	13	6.2	10	3.7	6.2	4.0
5....	3.2	9.0	13	....	....	40	13	5.1	8.4	4.0	6.8	3.7
6....	2.7	9.0	15	....	....	33	15	5.1	6.2	5.1	7.8	3.7
7....	3.5	9.0	15	....	....	28	20	5.6	6.2	4.6	18	11
8....	4.0	9.5	13	....	....	30	22	9.0	4.6	4.0	7.8	7.3
9....	5.6	9.5	15	....	....	31	16	8.4	4.0	3.7	7.3	12
10....	6.2	11	10	13	....	33	15	6.8	4.0	3.7	6.8	56
11....	6.2	13	9.5	....	....	30	20	6.8	4.0	3.5	6.2	13
12....	5.1	15	9.5	....	....	26	32	5.6	4.0	3.5	4.0	7.3
13....	5.1	15	10	....	....	23	39	6.2	3.5	15	4.0	7.3
14....	5.6	15	12	....	....	28	23	6.2	4.0	7.3	4.0	7.3
15....	5.6	15	10	....	....	34	16	5.6	4.6	7.8	3.7	6.8
16....	7.3	13	9	....	....	44	13	6.2	4.0	5.1	4.6	5.6
17....	9.5	12	8	....	....	44	30	18	4.0	4.0	6.2	6.2
18....	9.0	13	9.5	....	....	39	45	70	3.7	3.0	10	9.0
19....	9.5	13	9.5	....	....	36	32	30	3.7	3.0	28	6.8
20....	8.4	13	9	....	....	34	23	12	3.2	3.2	10	5.6
21....	9.0	12	9	....	....	32	15	11	3.5	6.8	9.5	5.1
22....	8.4	11	9.5	....	....	31	13	32	11	54	9.0	6.8
23....	8.4	12	9.5	....	....	27	12	32	7.3	9.5	7.3	9.0
24....	8.4	11	9.5	....	....	24	12	15	4.6	6.8	7.8	21
25....	8.4	13	9	....	....	24	11	12	4.0	5.1	7.8	15
26....	8.4	15	9.5	....	....	22	11	20	4.0	4.0	6.8	9.5
27....	7.3	18	9.5	....	....	22	10	22	3.5	7.8	6.2	6.8
28....	7.8	17	10	....	....	19	9.5	20	3.7	6.2	6.2	6.8
29....	7.8	14	11	....	....	16	9.5	20	4.0	6.2	4.0	5.6
30....	8.4	9.0	12	....	....	16	9.0	23	4.0	5.6	8.4	5.1
31....	8.4	....	12	....	....	15	....	18	....	6.2	7.8	....
Total	201.9	360.8	343.3	527	638	932	537.0	459.7	174.2	212.8	236.5	275.6
Mean.	6.51	12.0	11.1	17	22	30.1	17.9	14.8	5.81	6.86	7.63	9.19
Max..	9.5	18	18	....	....	44	45	70	16	54	28	56
Min...	2.7	8.4	8	....	....	15	9.0	5.1	3.2	3.0	3.7	3.7
Acre-ft.	400	716	681	1050	1270	1850	1070	912	346	422	469	547

Total run-off for water year 1939-40=9,730 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Charles River at San Isabel, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.4	2.0	3.4	1.6	1.2	1.0	3.3	44	28	4.4	2.6	1.4
2....	3.4	2.0	2.7	1.7	1.2	1.0	5.0	49	26	4.4	2.6	1.6
3....	4.4	4.4	1.7	1.5	1.3	1.0	6.5	46	25	4.4	5.6	1.5
4....	5.8	2.7	1.7	1.5	1.3	1.0	6.7	46	25	4.4	5.1	1.5
5....	4.8	3.5	1.7	1.5	1.3	1.0	5.1	46	24	4.2	3.2	1.4
6....	5.0	4.0	1.7	1.6	1.2	1.0	5.8	46	22	4.0	2.6	1.3
7....	7.6	3.5	1.7	1.6	1.2	1.0	6.3	28	21	3.9	2.7	1.3
8....	13	4.1	3.0	1.7	1.1	1.2	5.9	32	13	3.8	4.5	1.6
9....	10	2.6	3.0	1.7	1.1	1.2	5.9	38	12	3.8	2.7	1.7
10....	10	2.5	3.0	1.7	1.1	1.2	5.8	37	17	3.6	2.3	1.6
11....	9.1	2.4	3.0	1.7	1.2	1.2	6.2	31	17	3.5	2.0	1.5
12....	4.1	2.8	2.7	1.6	1.2	1.2	6.6	34	16	3.2	1.8	1.4
13....	5.3	2.6	2.0	1.5	1.2	1.4	6.4	42	11	3.0	2.1	1.4
14....	5.3	2.6	2.2	1.4	1.3	1.6	8.7	30	8.1	2.8	2.2	1.3
15....	5.6	2.6	2.3	1.5	1.3	2.0	7.8	25	7.7	2.6	2.0	1.3
16....	3.6	2.5	2.0	1.7	1.4	1.8	5.8	23	7.0	2.4	1.9	1.4
17....	2.8	3.0	2.3	1.6	1.6	2.1	6.1	21	6.1	2.4	1.8	1.5
18....	3.1	2.6	2.4	1.7	1.8	2.1	6.4	22	5.7	2.2	1.8	1.5
19....	4.7	2.1	2.2	1.8	1.4	2.3	5.4	22	5.2	2.2	1.8	1.4
20....	4.5	2.1	2.1	1.9	1.6	2.7	5.4	19	5.3	2.1	2.0	1.2
21....	4.8	2.1	2.1	1.9	1.3	3.3	12	19	5.3	2.0	2.0	1.3
22....	4.8	1.3	2.0	1.9	1.3	3.8	27	17	5.3	2.0	2.0	1.2
23....	2.3	1.9	1.7	2.3	1.3	4.2	26	16	4.7	2.0	1.8	1.2
24....	2.3	2.3	1.5	2.3	1.3	4.1	24	16	4.7	2.0	1.7	1.2
25....	2.3	2.6	1.5	2.6	1.2	3.8	26	16	4.7	2.0	1.6	1.3
26....	2.0	2.8	1.5	2.6	1.2	3.1	27	25	4.7	2.0	1.9	1.3
27....	2.0	3.0	1.5	2.3	1.2	3.3	25	36	4.7	2.1	1.8	1.3
28....	2.0	3.4	1.5	1.7	1.0	3.4	63	43	4.7	2.7	1.8	1.5
29....	2.0	3.4	1.5	1.4	....	3.3	53	46	4.7	2.8	1.8	1.6
30....	2.0	3.4	1.5	1.3	....	3.2	44	29	4.4	2.7	1.8	1.2
31....	2.0	....	1.5	1.3	....	3.3	....	25	....	2.6	1.5	....
Total	144.0	82.8	64.6	54.1	35.8	67.8	448.1	969	350.0	92.2	73.0	41.9
Mean.	4.65	2.76	2.08	1.75	1.28	2.19	14.9	31.3	11.7	2.97	2.35	1.40
Max..	13	4.4	3.4	2.6	1.8	4.2	63	49	28	4.4	5.6	1.7
Min...	2.0	1.3	1.5	1.3	1.0	1.0	3.3	16	4.4	2.0	1.5	1.2
Acre-ft.	286	164	128	107	71.0	134	889	1920	694	183	145	83

Total run-off for water year 1938-39=4,800 acre-feet.

Discharge of St. Charles River at San Isabel, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.2	1.3	0.7	0.3	0.6	1.0	4.1	10	4.2	1.0	0.7	0.5
2....	1.3	1.3	.8	.4	.6	1.2	5.2	17	3.7	1.4	.5	.5
3....	1.3	1.2	.8	.4	.5	.8	4.2	16	3.6	1.7	.9	.5
4....	1.3	1.1	.8	.5	.6	.8	5.0	10	3.5	2.2	.8	.4
5....	1.2	1.1	.7	.5	.6	1.4	5.2	7.6	3.2	2.0	.8	.4
6....	1.1	1.1	.7	.4	.5	1.0	5.3	6.1	2.8	1.3	1.2	.4
7....	1.1	1.1	.7	.4	.6	1.0	4.7	6.0	2.5	1.2	1.4	.4
8....	1.2	1.1	.7	.4	.5	1.0	5.3	6.0	2.8	1.0	1.3	.4
9....	1.2	1.3	.7	.4	.5	1.0	2.6	6.8	3.4	.9	.9	.7
10....	1.3	1.3	.7	.4	.5	1.1	2.5	6.1	2.9	.8	.7	4.0
11....	1.3	1.3	.6	.3	.5	1.1	2.4	6.1	2.9	.8	.6	1.7
12....	1.3	1.4	.9	.4	.5	.9	3.2	5.2	2.5	1.0	.6	1.2
13....	1.3	1.2	.7	.3	.5	1.1	3.3	4.6	2.2	1.0	.5	1.2
14....	1.3	1.4	.6	.3	.5	1.2	4.4	4.8	2.1	1.0	.4	1.0
15....	1.3	1.6	.8	.3	.5	1.1	5.7	5.3	2.0	.8	.4	.8
16....	1.3	2.7	.8	.3	.5	1.0	6.6	3.6	1.8	.7	.5	.6
17....	1.3	1.4	.9	.4	.5	1.1	6.8	4.3	1.6	.7	.6	1.2
18....	1.3	1.4	.7	.5	.5	1.2	6.7	6.5	1.5	.6	.6	1.0
19....	1.3	1.4	.6	.5	.5	1.2	8.0	10	1.4	.6	.6	1.0
20....	1.3	1.3	.7	.4	.5	1.2	11	7.4	2.2	1.4	.5	.8
21....	1.3	1.0	.6	.5	.5	1.3	14	6.4	1.1	1.0	.5	2.2
22....	1.2	1.0	.7	.5	.6	1.5	10	7.3	1.1	.9	.7	1.9
23....	1.2	1.0	.7	.4	.6	1.9	10	10	1.3	.5	1.0	1.4
24....	1.2	1.0	.3	.4	.7	2.0	23	8.4	1.3	.5	1.6	7.0
25....	1.3	.9	.3	.4	.7	1.9	13	6.2	1.0	.5	.9	4.4
26....	1.2	.8	.3	.5	.8	2.1	33	7.1	.9	.5	1.2	2.9
27....	1.2	.7	.3	.5	.9	2.3	13	6.2	.8	.4	.7	2.2
28....	1.2	.8	.2	.5	1.0	2.1	14	5.9	.9	.4	.6	1.9
29....	1.2	.7	.2	.6	1.4	1.8	7.2	6.3	.9	.8	.6	1.8
30....	1.5	.7	.2	.6	....	2.1	10	6.3	1.0	.8	.9	1.9
31....	1.4	....	.3	.6	....	2.8	....	4.9	....	1.6	.6	....
Total	39.1	35.6	18.7	13.3	17.7	43.2	249.4	224.4	63.1	30.0	23.8	46.3
Mean.	1.26	1.19	0.60	0.43	0.61	1.39	8.31	7.24	2.10	0.97	0.77	1.54
Max..	1.5	2.7	.9	.6	1.4	2.8	33	17	4.2	2.2	1.6	7.0
Min...	1.1	.7	.2	.3	.5	.8	2.4	3.6	.8	.4	.4	.4
Acre-ft.	78	71	37	26	35	86	495	445	125	60	47	92

Total run-off for water year 1939-40=1,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Monument Creek at Pikeview, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	6.6	9.3	16	12	13	37	58	15	1.8	3.8	1.8
2....	12	7.1	1.4	16	7.1	11	41	58	17	2.0	23	1.8
3....	9.7	7.9	1.4	18	7.1	10	32	60	14	1.7	6.6	3.8
4....	8.8	9.7	0.5	15	7.1	13	32	60	11	1.7	4.5	1.8
5....	8.8	7.9	2.0	16	4.0	18	38	60	9.3	1.1	3.2	4.0
6....	11	11	0.4	13	7.1	34	42	47	12	4.5	2.2	4.5
7....	14	2.8	1.4	14	9.7	38	78	58	10	3.0	3.2	2.2
8....	11	7.1	2.8	12	16	34	58	59	11	4.5	4.2	2.0
9....	11	9.7	3.2	9	8.8	36	62	47	13	3.5	7.5	0.8
10....	9.7	7.9	6.6	6	5.4	38	59	52	11	3.0	3.5	0.3
11....	8.8	9.7	4.0	4.5	12	27	73	58	7.9	2.5	5.8	0.1
12....	9.7	7.1	6.2	3.8	11	27	146	45	8.8	3.0	4.2	0.3
13....	9.7	8.8	6.2	4.5	7.1	28	57	38	7.1	1.8	2.0	0.1
14....	4.5	14	4.5	3.5	11	22	58	42	7.1	2.0	3.0	0.4
15....	4.5	10	11	10	11	25	71	37	7.1	2.8	2.5	1.4
16....	5.4	12	15	12	15	29	52	38	6.6	3.0	2.2	1.7
17....	4.5	14	9.3	12	15	26	65	38	6.6	2.5	3.5	0.6
18....	6.2	15	5.4	12	9.7	26	76	26	6.6	2.0	3.6	0.5
19....	8.4	7.1	12	15	8.4	28	74	31	7.5	1.8	3.8	1.0
20....	9.7	14	9.3	11	11	28	53	34	7.1	0.3	4.0	1.6
21....	9.3	7.1	7.9	7.5	7.5	31	50	35	6.6	0.3	4.2	1.7
22....	9.7	6.6	17	12	14	31	57	36	4.2	0.4	4.9	0.4
23....	8.8	6.4	11	6.6	16	36	63	30	5.4	0.2	1.2	1.0
24....	8.0	5.8	12	3.5	18	40	63	28	5.8	0.0	1.0	3.5
25....	8.8	5.6	17	6.2	14	30	63	30	5.4	0.1	0.8	2.0
26....	6.6	10	11	5.4	3.5	40	70	32	4.0	0.2	1.2	2.5
27....	4.5	22	15	22	4.0	40	70	28	3.6	0.4	1.6	3.0
28....	5.4	16	15	18	14	37	70	19	2.8	1.6	1.2	3.8
29....	6.6	18	16	18	....	40	79	18	2.0	2.5	1.0	2.2
30....	7.1	14	18	11	....	32	63	15	1.6	4.0	1.4	1.4
31....	7.1	....	16	7.1	....	47	....	15	....	4.0	1.0	....
Total	262.3	300.9	267.8	340.6	286.5	915	1852	1232	237.1	62.2	115.8	52.2
Mean.	8.46	10.0	8.64	11.0	10.2	29.5	61.7	39.7	7.90	2.01	3.74	1.74
Max..	14	22	18	22	18	47	146	60	17	4.5	2.3	4.5
Min...	4.5	2.8	0.4	3.5	3.5	10	32	15	1.6	0.0	0.8	0.1
Acre-ft.	520	597	531	676	568	1810	3670	2440	470	123	230	104

Total run-off for water year 1938-39=11,740 acre-feet.

Discharge of Monument Creek at Pikeview, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.4	3.0	5.8	....	3.6	7.1	12	26	28	13	1.4	1.0
2....	3.2	2.2	7.0	....	3.4	7.1	14	28	44	11	1.0	2.0
3....	1.8	2.5	7.5	....	4.5	15	16	20	65	9.7	1.0	1.4
4....	1.4	4.5	8.2	4.5	4.5	16	17	17	63	8.6	1.0	2.0
5....	1.8	3.0	9.3	....	4.0	13	18	31	51	7.1	1.0	4.0
6....	.8	4.2	7.5	....	4.5	6.2	19	28	42	6.6	1.4	7.1
7....	1.1	7.9	4.2	....	4.2	2.2	20	26	42	9.7	1.0	4.9
8....	1.6	7.5	3.0	....	3.6	4.2	22	25	40	8.8	.4	7.9
9....	1.0	9.7	4.0	....	3.9	42	25	30	59	6.6	.4	10
10....	1.2	7.1	4.0	....	4.5	31	27	27	28	4.0	.6	11
11....	2.2	8.8	3.5	....	5.0	46	20	21	26	2.8	1.1	9.7
12....	1.4	6.2	2.2	....	4.5	49	21	23	20	2.0	1.4	10
13....	2.2	7.5	5.4	....	3.5	51	31	22	28	2.0	2.2	11
14....	1.6	7.9	2.8	....	3.0	45	29	27	23	1.4	1.6	13
15....	.6	7.5	2.2	....	3.3	44	34	22	26	1.2	1.4	14
16....	1.0	6.2	2.2	....	3.6	40	27	17	20	1.2	1.0	12
17....	1.6	7.5	4.9	....	3.4	13	29	18	11	1.2	.9	13
18....	1.4	4.5	3.5	....	3.2	11	34	24	13	1.0	1.0	13
19....	1.2	5.4	2.5	....	3.5	12	34	26	14	1.0	.8	15
20....	2.2	6.2	3.5	....	3.5	13	34	32	16	1.2	1.2	11
21....	2.8	4.5	6.2	....	3.5	13	38	43	17	1.6	1.8	14
22....	2.2	5.8	5.4	....	3.6	12	31	42	15	4.4	1.6	13
23....	2.5	5.6	7.1	4.2	3.8	9.7	31	39	9.5	1.6	1.5	7.9
24....	2.0	4.5	9.3	....	3.2	12	28	36	14	2.5	1.3	7.5
25....	1.8	3.6	8.4	....	3.8	14	27	68	16	3.2	1.2	8.4
26....	2.5	3.2	7.1	....	4.0	17	23	56	11	4.2	1.1	6.2
27....	2.2	3.1	6.6	....	4.9	17	28	54	15	4.5	1.0	7.1
28....	2.8	3.5	5.4	....	7.1	17	24	48	18	3.0	.8	4.9
29....	4.0	4.5	4.7	....	6.6	16	24	40	15	1.7	.7	6.6
30....	3.0	5.0	4.5	....	....	16	23	31	14	1.6	.8	4.5
31....	2.5	....	4.5	....	....	15	....	25	....	1.7	.9	....
Total	59.0	162.6	162.4	139.5	117.7	627.1	760	972	803.5	130.1	34.5	253.1
Mean.	1.90	5.42	5.24	4.5	4.06	20.2	25.3	31.4	26.8	4.20	1.11	8.44
Max..	4.0	9.7	9.3	....	7.1	51	38	68	65	13	2.2	15
Min...	.6	2.2	2.2	....	3.0	2.8	12	17	9.5	1.0	.4	1.0
Acre-ft.	117	323	322	277	233	1240	1510	1930	1590	258	68	502

Total run-off for water year 1939-40=8,370 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fountain Creek Near Fountain Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	27	12	20	30	52	18	40	92	45	6.5	2.4	3.4
2....	16	11	16	34	52	18	40	23	36	15	113	1.4
3....	11	16	10	40	46	18	40	23	40	3.1	92	2.4
4....	12	13	9	30	43	8.5	21	23	26	5.1	21	0.6
5....	22	22	10	33	46	31	14	23	9.2	0.3	5.8	1.4
6....	25	20	29	25	46	48	62	56	4.5	1.7	3.1	1.0
7....	24	24	49	28	49	40	86	31	3.4	6.5	4.5	1.0
8....	32	26	53	25	49	50	110	31	3.8	12	3.4	3.1
9....	24	27	50	20	58	62	98	15	0.3	9.8	4.5	2.4
10....	36	26	63	14	58	80	98	3.4	1.0	8.5	3.8	1.0
11....	29	28	68	11	53	176	101	2.0	0.1	12	3.8	0.6
12....	25	24	53	10	49	152	65	3.1	0.6	9.2	2.8	0.6
13....	24	22	47	12	55	80	59	9.8	3.1	7.2	10	3.1
14....	22	25	34	11	56	26	59	7.2	1.0	0.3	3.1	1.4
15....	20	23	50	18	60	53	140	4.5	0.2	0.2	1.7	2.8
16....	20	22	82	20	68	38	152	21	0.6	7.2	0.3	2.4
17....	22	26	70	21	64	6.5	160	28	0.2	7.8	0.2	0.6
18....	20	26	46	24	42	14	144	59	4.5	0.3	0.3	0.1
19....	16	20	60	27	38	24	137	21	4.5	0.3	0.2	0.2
20....	17	20	45	26	40	36	116	12	6.5	0.2	0.1	0.2
21....	18	18	35	27	49	36	113	10	5.8	0.3	0.3	0.1
22....	18	16	50	25	39	53	89	5.1	3.8	0.3	1.0	1.0
23....	16	14	30	18	47	62	101	18	1.7	0.3	0.2	2.4
24....	15	13	33	14	65	68	107	17	0.1	0.2	1.0	0
25....	18	12	38	10	33	56	104	10	0.2	2.8	0.3	0.3
26....	18	35	20	25	28	65	104	17	0.6	3.1	4.5	0.2
27....	11	40	22	50	18	80	86	26	0.2	3.8	8.5	0.2
28....	13	34	24	55	21	86	95	15	0.2	3.8	7.8	0.3
29....	22	26	28	47	....	144	92	56	0.6	3.4	8.5	5.1
30....	14	23	26	42	....	119	113	83	1.0	2.4	6.5	0
31....	11	....	22	49	....	83	....	17	....	2.8	7.2	....
Total	618	664	1192	821	1324	1831	2746	762.1	204.7	136.4	321.8	39.3
Mean.	19.9	22.1	38.5	26.5	47.3	59.1	91.5	24.6	6.82	4.40	10.4	1.31
Max..	36	40	82	55	68	176	160	92	45	15	113	5.1
Min...	11	11	9	10	18	6.5	14	2.0	0.1	0.2	0.1	0
Acre-ft.	1230	1320	2360	1630	2630	3630	5450	1510	406	271	638	78

Total run-off for water year 1938-39=21,150 acre-feet.

Discharge of Fountain Creek Near Fountain, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.1	....	....	....	....	10	18	3.4	52	38	14	2.8
2....	2.4	....	....	....	....	7.6	21	6.6	47	85	12	2.8
3....	5.1	....	....	....	....	6.1	19	9.4	41	82	11	50
4....	4.5	....	....	38	....	8	19	7.0	38	58	12	44
5....	4.5	....	....	....	....	10	20	6.6	36	50	11	12
6....	3.1	....	....	....	....	12	24	2.5	34	42	10	2.8
7....	3.4	....	6.4	....	....	14	20	6.1	35	38	12	2.4
8....	3.8	....	....	....	....	12	20	22	30	39	8.4	5.6
9....	4.2	....	....	....	35	16	23	13	26	44	8.0	37
10....	3.4	....	....	....	....	20	27	3.4	25	45	4.6	116
11....	3.0	....	....	....	....	26	28	5.6	18	45	1.6	62
12....	2.4	....	....	....	....	24	27	6.1	12	33	1.8	60
13....	4.0	10	....	....	....	19	21	8.8	11	28	2.0	38
14....	3.4	....	....	....	....	26	21	8.2	9.6	33	1.3	24
15....	3.0	....	....	....	....	21	28	7.6	10	48	1.2	26
16....	2.6	....	....	....	....	13	20	5.2	8.4	54	1.0	12
17....	2.8	....	....	....	....	5.6	17	10	10	3.9	.9	8.4
18....	3.4	....	....	....	....	5.2	15	6.1	10	4.2	1.9	8.0
19....	3.4	....	....	....	....	3.4	10	3.0	11	4.2	.7	8.0
20....	3.6	....	....	....	....	3.0	5.6	2.4	10	14	2.5	8.4
21....	3.8	....	5.7	....	....	12	5.4	13	16	50	8.4	10
22....	3.0	9.2	....	....	....	14	6.8	16	21	33	3.9	12
23....	2.6	....	....	12	31	14	5.4	11	15	12	2.4	16
24....	2.7	....	....	....	....	17	3.0	3.8	14	7.2	2.4	22
25....	2.6	....	....	....	....	14	6	9.4	14	5.3	3.6	22
26....	2.8	....	....	....	....	13	9.4	13	14	7.6	1.4	16
27....	3.0	....	....	....	....	11	12	660	12	8.0	1.3	12
28....	4.0	....	....	....	....	9.4	12	1620	12	5.6	1.6	10
29....	6	....	....	....	....	5.6	11	313	13	988	2.4	9.2
30....	9	....	....	....	....	4.8	7.6	146	13	34	2.8	11
31....	8.6	....	....	....	....	13	....	53	....	18	2.8	....
Total	117.2	300	248	775	870	389.7	482.2	3001.2	618.0	1957.0	150.9	670.4
Mean.	3.78	10	8	25	30	12.6	16.1	96.8	20.6	63.1	4.87	22.3
Max..	9	....	....	....	....	26	28	1620	52	988	14	116
Min...	2.4	....	....	....	....	3.0	3.0	2.4	8.4	3.9	.7	2.4
Acre-ft.	232	595	492	1540	1730	773	956	5950	1230	3880	299	1330

Total run-off for water year 1939-40=19,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River at Manzanares Crossing Near Red Wing, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	22	19	10	18	13	10	17	47	66	27	33	21
2....	22	20	11	18	13	10	20	55	61	27	32	21
3....	21	20	12	16	14	10	25	64	58	26	28	19
4....	21	20	12	15	16	11	23	66	62	26	25	17
5....	23	20	12	13	16	11	22	64	70	26	24	16
6....	22	20	11	12	16	10	20	64	67	24	23	16
7....	27	20	13	12	16	10	17	62	60	24	26	15
8....	36	20	14	12	16	11	20	61	54	25	31	17
9....	22	20	14	12	16	11	22	58	52	28	30	17
10....	28	19	15	12	15	12	21	64	54	26	25	18
11....	28	19	15	12	15	11	20	64	52	24	23	17
12....	28	18	14	12	18	11	22	68	48	22	22	17
13....	26	21	11	11	18	10	24	67	50	19	21	20
14....	25	22	12	12	15	10	25	62	51	18	20	21
15....	27	19	12	13	11	11	23	60	45	19	20	38
16....	27	17	13	13	10	11	21	61	39	17	19	40
17....	24	16	13	13	10	11	18	60	38	17	16	36
18....	26	20	13	13	10	12	20	60	38	17	15	29
19....	28	26	13	12	10	13	22	70	34	17	15	26
20....	28	23	14	12	10	20	22	80	33	15	17	23
21....	28	16	14	12	10	20	25	76	31	15	17	20
22....	28	18	14	14	10	21	29	72	28	15	15	18
23....	26	17	14	17	10	23	29	70	37	15	14	17
24....	22	15	14	19	10	25	28	64	33	15	12	17
25....	22	12	14	21	10	25	28	62	31	17	19	17
26....	22	11	13	19	10	24	29	58	30	20	20	18
27....	22	10	14	17	10	25	29	52	28	20	17	17
28....	20	10	16	16	10	25	32	50	34	21	26	15
29....	21	10	16	15	....	20	36	52	30	28	29	15
30....	20	10	16	15	....	15	40	58	27	41	28	17
31....	19	....	17	14	....	15	....	66	....	40	24	....
Total	761	528	416	442	358	464	729	1937	1341	691	686	615
Mean.	24.5	17.6	13.4	14.3	12.8	15.0	24.3	62.5	44.7	22.3	22.1	20.5
Max..	36	26	17	21	18	25	40	80	70	41	33	40
Min...	19	10	10	11	10	10	17	47	27	15	12	15
Acre-ft.	1510	1050	825	877	710	920	1450	3840	2660	1370	1360	1220

Total run-off for water year 1938-39=17,790 acre-feet.

Discharge of Huerfano River at Manzanares Crossing Near Redwing, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	11	12	9.8	11	13	14	20	58	22	18	17
2....	15	12	11	8.8	9.6	13	12	20	60	22	16	17
3....	14	12	11	9.0	9.8	13	10	22	58	22	15	16
4....	14	10	11	9.0	10	12	12	22	56	22	16	14
5....	12	9.0	10	8.4	11	13	12	25	51	24	19	11
6....	11	9.0	12	7.8	11	12	12	28	45	22	22	12
7....	11	8.5	11	7.4	12	12	10	28	42	23	24	13
8....	13	8.5	10	7.4	13	13	9	33	40	20	26	12
9....	13	11	10	7.8	13	14	10	32	38	20	26	13
10....	13	12	9.5	9.0	12	14	12	29	35	20	26	16
11....	12	12	8.5	9.6	11	13	11	28	33	20	24	16
12....	11	10	9.0	12	10	12	12	28	32	20	22	14
13....	11	11	13	10	9.8	13	13	29	28	21	20	15
14....	12	10	11	9.1	9.4	13	15	33	28	20	18	15
15....	11	10	11	8.7	9.2	13	17	39	30	23	18	15
16....	12	12	11	9.6	8.7	15	20	39	30	22	20	14
17....	12	12	9.5	8.8	9.2	13	21	48	29	22	20	15
18....	12	11	9.0	8.4	10	12	21	52	30	21	19	17
19....	13	12	8.4	8.0	10	13	20	42	31	21	24	18
20....	12	12	7.0	8.5	11	14	20	39	29	22	21	22
21....	12	9.0	7.2	9.0	11	15	19	41	31	22	27	26
22....	12	8.5	7.8	9.5	12	14	16	40	36	26	23	30
23....	12	9.5	8.8	9.0	13	13	16	37	37	23	24	32
24....	12	10	7.4	8.3	13	13	16	37	35	22	24	32
25....	11	10	7.2	7.8	14	13	17	37	33	20	28	30
26....	13	10	7.2	8.4	14	14	17	39	30	21	26	28
27....	12	10	7.8	9.4	15	14	17	40	27	22	25	26
28....	12	11	8.7	10	14	14	15	43	25	21	24	27
29....	12	14	9.5	12	13	10	17	48	24	20	21	25
30....	12	12	9.9	13	....	12	22	51	23	20	20	24
31....	10	....	10	12	....	12	....	52	....	19	20	....
Total	380	319.0	296.4	285.5	329.7	404	455	1101	1084	665	676	582
Mean.	12.3	10.6	9.56	9.21	11.4	13.0	15.2	35.5	36.1	21.5	21.8	19.4
Max..	16	14	13	13	15	15	22	52	60	26	28	32
Min...	10	8.5	7.0	7.4	8.7	10	9	20	23	19	15	11
Acre-ft.	754	633	588	566	654	801	902	2180	2150	1320	1340	1150

Total run-off for water year 1939-40=13,040 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River at Badito, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	8.5	43	37	22	21	13	42	33	12	9.0	8.5
2....	13	7.1	49	47	38	22	21	32	29	11	275	6.0
3....	12	7.9	38	41	38	22	23	26	20	11	92	8.7
4....	11	5.1	36	37	40	22	15	28	26	10	80	3.4
5....	9.0	4.7	41	36	36	16	9.0	27	32	7.1	67	1.4
6....	7.9	3.7	37	35	36	13	11	21	23	6.0	4.2	5.4
7....	7.9	33	33	31	28	37	15	22	24	7.1	138	5.8
8....	10	31	37	41	29	38	13	22	21	6.0	23	7.6
9....	13	29	33	49	25	40	12	29	20	8.7	4.4	9.0
10....	12	26	37	36	16	40	6.0	26	19	7.3	2.8	9.3
11....	15	26	32	31	13	42	5.8	41	21	5.4	3.9	7.3
12....	13	26	28	44	33	42	2.2	52	21	6.8	2.2	8.2
13....	18	19	18	41	25	40	5.1	26	19	6.5	4.9	8.2
14....	15	36	29	22	28	44	10	18	17	8.2	3.5	7.1
15....	11	35	37	24	23	41	24	15	12	9.6	3.7	8.5
16....	10	34	35	25	19	33	20	29	11	9.3	5.6	5.8
17....	11	31	29	23	17	37	20	25	12	8.2	7.1	5.6
18....	15	29	29	24	25	29	10	25	18	7.1	8.5	3.5
19....	12	32	34	28	24	35	4.9	27	15	8.5	9.0	7.3
20....	15	37	33	35	18	33	10	23	13	8.5	10	7.9
21....	13	36	34	49	17	36	0.2	20	18	5.4	10	11
22....	12	29	29	43	24	40	6.3	17	13	4.9	7.1	7.3
23....	12	22	25	33	26	44	21	23	15	6.5	7.3	5.8
24....	12	26	23	37	23	50	19	22	16	6.5	5.6	10
25....	12	21	23	30	24	35	6.8	37	14	6.5	3.9	6.5
26....	11	32	20	33	22	30	19	24	17	6.5	12	9.3
27....	11	41	21	34	26	43	18	16	17	8.2	8.5	8.7
28....	11	45	37	32	19	30	16	18	15	6.3	9.3	6.0
29....	11	41	37	36	....	25	37	37	15	9.0	11	8.5
30....	7.9	41	37	30	....	17	35	27	21	10	7.9	6.0
31....	7.9	....	37	41	....	15	....	35	....	4.9	8.5	....
Total	364.6	795	1011	1085	714	1012	428.3	832	567	239.0	844.9	213.6
Mean.	11.8	26.5	32.6	35.0	25.5	32.6	14.3	26.8	18.9	7.71	27.3	7.12
Max..	18	45	49	49	40	50	37	52	33	12	275	11
Min...	7.9	3.7	18	22	13	13	0.2	15	11	4.9	2.2	1.4
Acre-ft.	723	1580	2010	2150	1420	2010	850	1650	1120	474	1680	424

Total run-off for water year 1938-39=16,090 acre-feet.

Discharge of Huerfano River at Badito, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.4	1.5	3.5	5.5	18	16	3.7	15	14	15	3.2	12
2....	6.3	.9	3.0	4.5	15	9.6	5.4	13	13	13	3.5	21
3....	44	.9	4.7	5.0	13	9.3	6.3	11	21	9.6	130	17
4....	25	.5	3.9	5.0	14	9.6	4.7	10	18	7.1	2.1	7.6
5....	34	.3	3.5	4.5	15	6.3	5.4	7.9	17	11	1.9	10
6....	9.0	1.0	2.4	3.5	16	8.2	9.0	9.3	15	8.7	1.1	9.6
7....	6.8	1.8	2.5	3.0	18	6.8	6.5	12	16	8.5	.5	5.8
8....	8.2	1.0	3.7	3.0	22	6.5	7.1	13	20	6.8	2.8	5.1
9....	7.1	1.1	1.9	6.0	22	3.0	3.4	8.5	20	5.6	.3	6.8
10....	11	5.4	2.4	9	22	5.8	3.9	12	24	8.5	.2	7.9
11....	9.0	2.7	1.9	14	23	2.5	10	12	25	9.0	.1	7.6
12....	7.1	3.7	1.4	16	18	5.6	7.6	12	22	8.2	0	7.6
13....	6.0	2.5	4.2	14	17	4.9	6.3	13	21	7.6	0	7.9
14....	7.6	2.5	8.7	12	16	4.7	7.1	12	26	6.3	0	13
15....	5.8	4.2	5.4	11	25	3.0	9.0	15	22	8.5	0	10
16....	5.6	5.4	2.8	14	28	3.2	9.0	13	20	14	25	8.5
17....	6.5	6.3	0.8	13	26	1.8	13	16	18	9.6	16	10
18....	8.5	6.5	2.8	12	23	2.1	2.7	11	18	6.8	12	11
19....	11	4.4	2.5	10	23	1.1	.9	4.6	19	11	13	11
20....	5.8	4.5	2.0	11	23	1.7	3.2	10	19	24	32	14
21....	6.0	4.5	2.0	12	23	1.4	7.6	13	19	9.6	7.6	155
22....	7.3	4.0	2.5	13	22	1.0	6.3	8.7	17	12	19	.4
23....	5.6	3.5	2.5	11	26	1.0	8.2	3.7	17	10	8.7	.2
24....	6.8	2.0	2.5	10	24	.6	7.6	13	19	8.7	9.0	.8
25....	5.6	1.5	2.0	10	23	.3	7.3	14	17	6.5	16	.1
26....	4.4	1.0	2.5	11	22	.7	8.7	13	17	5.4	13	.1
27....	3.9	1.0	3.0	13	20	15	10	16	17	4.7	12	.1
28....	6.0	1.5	4.0	18	17	4.4	12	19	15	6.5	13	.2
29....	5.4	2.5	6.0	20	14	3.7	14	16	13	5.1	11	0
30....	7.9	3.0	7.0	22	....	2.8	17	15	10	6.5	10	.1
31....	3.0	....	7.0	20	....	2.8	....	14	....	3.5	11	....
Total	289.6	81.6	105.0	336.0	588	145.4	222.9	375.7	549	277.3	374.0	360.4
Mean.	9.34	2.72	3.39	10.8	20.3	4.69	7.43	12.1	18.3	8.95	12.1	12.0
Max..	44	6.5	8.7	22	28	16	17	19	26	24	130	155
Min...	3.0	.3	.8	3.0	13	.3	.9	3.7	10	3.5	0	0
Acre-ft.	574	162	208	666	1170	288	442	745	1090	550	742	715

Total run-off for water year 1939-40=7,350 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River Near Undercliffe, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	12	44	34	41	30	21	22	5.4	0	0	0
2....	11	13	42	41	30	34	17	30	5.2	0	151	0
3....	10	14	42	26	23	36	10	25	4.5	0	72	0
4....	8.8	16	42	31	25	38	12	28	4.1	0	33	0
5....	8.8	14	44	20	26	38	12	25	3.8	0	22	0
6....	8.4	16	47	17	30	40	16	20	0	0	18	0
7....	7.8	21	46	12	26	42	19	16	0	0	16	0
8....	11	21	40	10	20	44	24	14	0	18	20	0
9....	9.2	34	38	8	12	46	27	14	0	24	18	0
10....	9.6	31	47	4	8	47	25	18	0	17	8.8	0
11....	8.8	26	52	0	7.3	77	30	9.6	0	8.0	6.2	0
12....	8.0	26	50	0	12	75	21	9.2	0	5.2	4.6	0
13....	9.6	24	50	0	20	54	23	7.8	0	3.1	2.4	0
14....	8.8	25	100	0	40	46	41	5.7	0	0	2.6	0
15....	9.6	35	125	0	63	54	47	4.4	0	0	0	0
16....	10	46	53	0	54	64	70	3.1	0	0	0	0
17....	8.0	52	38	2	56	61	75	2.6	0	0	0	0
18....	8.0	50	38	6	58	59	70	2.0	0	0	0	0
19....	8.4	41	27	10	44	54	57	1.0	0	0	65	0
20....	10	40	44	20	33	46	47	0	0	0	35	0
21....	12	35	68	19	23	46	40	0	0	0	2	0
22....	9.6	18	64	18	25	50	41	0	0	0	0	0
23....	8.8	12	62	31	28	63	33	0	0	0	0	0
24....	8.8	10	60	18	32	70	24	0	0	0	0	0
25....	9.2	8.4	59	24	32	86	19	0	0	0	0	0
26....	10	7.5	52	46	36	68	16	8.8	0	0	0	0
27....	10	5.0	31	52	34	57	14	7.6	0	0	0	0
28....	11	4.5	31	47	28	50	12	5.4	0	0	0	0
29....	11	33	81	55	....	33	12	7.6	0	0	0	0
30....	12	38	50	59	....	21	18	7.6	0	0	0	0
31....	12	....	31	59	....	20	....	5.6	....	0	0	0
Total	299.2	728.4	1598	669	866.3	1549	893	300	23	75.3	476.6	0
Mean.	9.65	24.3	51.5	21.6	30.9	50.0	29.8	9.68	0.77	2.43	15.4	0
Max..	12	52	125	59	63	86	75	30	5.4	24	151	0
Min...	7.8	4.5	27	0	7.3	20	10	0	0	0	0	0
Acre-ft.	593	1440	3170	1330	1720	3070	1770	595	46	149	945	0

Total run-off for water year 1938-39=14,830 acre-feet.

Discharge of Huerfano River Near Undercliffe, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	0	0	8	24	.5	.6	1.4	0	0	0
2....	0	0	0	0	7	30	.4	.2	1.6	24	0	0
3....	0	0	0	0	6.9	29	.4	.2	1.4	1.3	0	19
4....	0	0	0	0	7	23	.3	.2	1.3	2.4	9.6	11
5....	0	0	0	0	6.5	22	.2	.2	1.1	1	7	3.2
6....	0	0	0	0	6	17	.4	.2	1	.6	4.2	3.2
7....	0	0	0	0	6	18	.7	.2	1.3	.5	3.6	74
8....	0	0	0	0	6.5	17	.9	.4	.9	.5	2.8	52
9....	0	0	0	0	7.7	18	.8	.8	.8	.4	1.6	1150
10....	0	0	0	0	6.2	18	.7	.8	.7	.4	.6	74
11....	0	0	0	0	7.5	18	1.4	.5	.6	.4	.2	13
12....	0	0	0	0	7.9	18	1	.4	.4	18	.1	12
13....	0	0	0	0	.5	15	1.4	.2	.3	.6	.1	20
14....	0	0	0	0	1	18	1.3	0	.1	.1	.1	54
15....	0	0	0	0	1	17	1	0	.1	0	0	3.2
16....	0	0	0	0	1.4	12	1	0	.1	0	0	1.3
17....	0	0	0	0	2	8.1	5	.1	.1	0	.2	1.2
18....	0	0	0	0	2.5	4.5	22	7	0	0	4.6	1.1
19....	0	0	0	0	5	4	24	22	0	0	8.3	1.1
20....	0	0	0	0	5.5	3.7	20	30	0	0	8.6	1
21....	0	0	0	0	7	3.1	20	31	0	0	11	12
22....	0	0	0	0	9	2	18	34	0	.3	194	24
23....	0	0	0	0	15	1.6	19	40	0	.5	26	45
24....	0	0	0	0	28	1.4	17	42	0	.3	19	101
25....	0	0	0	0	30	1.2	14	42	0	.2	7.2	26
26....	0	0	0	0	39	1	9.9	38	0	14	3.2	43
27....	0	0	0	.2	14	.8	6.5	28	0	7.2	.7	15
28....	0	0	0	.5	20	.7	4.2	26	0	.7	0	17
29....	0	0	0	6	18	.7	2.4	5.7	0	0	0	20
30....	0	0	0	10	....	.6	1.5	1	0	0	0	29
31....	0	0	0	8	....	.6	....	1.1	....	0	0	....
Total	0	0	0	24.7	282.1	348	195.9	352.8	13.2	73.4	312.7	1826.3
Mean.	0	0	0	.80	9.73	11.2	6.53	11.4	.44	2.37	10.1	60.9
Max..	0	0	0	10	39	30	24	42	1.6	24	194	1150
Min...	0	0	0	0	.5	.6	.2	0	0	0	0	0
Acre-ft.	0	0	0	49	560	690	389	700	26	146	620	3620

Total run-off for water year 1939-40=6,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cucharas River at Boyd Ranch Near La Veta, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	12	10	9.5	15	8.2	6.9	20	65	63	22	14	14
2....	12	12	8.5	15	8.2	7.4	23	68	72	21	20	14
3....	11	12	10	12	8.4	8.3	26	69	68	20	16	12
4....	12	14	9.5	11	9.0	8.8	29	74	65	20	14	12
5....	12	14	8.5	10	9.8	8.6	26	73	67	18	14	12
6....	11	10	6.3	9.1	10	9.0	22	74	63	17	13	14
7....	12	24	8.5	9.2	10	10	24	68	60	16	16	7.5
8....	25	23	9.0	9.0	10	12	25	67	55	16	18	11
9....	17	18	9.0	9.0	9.8	16	27	66	48	16	16	12
10....	14	13	10	8.9	10	17	27	66	48	14	13	11
11....	14	12	10	9.0	10	16	27	67	46	14	14	7.0
12....	14	12	9.4	8.7	11	14	27	74	44	14	13	6.0
13....	12	17	8.9	7.8	10	13	27	66	45	12	13	5.2
14....	12	12	8.8	7.1	7.4	14	30	63	44	12	12	4.2
15....	12	12	9.0	7.6	6.2	16	32	65	40	14	12	5.6
16....	12	12	9.4	7.8	6.4	14	29	66	37	13	11	12
17....	12	12	10	7.6	7.0	13	27	65	36	12	9	9.5
18....	12	14	11	7.4	7.2	17	26	65	35	14	9.5	8.5
19....	14	14	11	7.3	7.6	18	26	67	33	14	10	9.0
20....	10	13	11	7.2	7.4	18	27	73	33	13	12	9.5
21....	10	10	12	7.9	7.5	18	30	73	33	12	15	8.5
22....	12	14	12	8.4	7.4	20	35	65	30	13	13	8.0
23....	12	13	12	9.0	7.3	24	41	61	29	12	13	8.0
24....	10	12	12	11	7.2	24	43	61	30	11	11	8.0
25....	11	7	12	12	7.1	22	42	66	27	12	10	7.5
26....	12	10	12	11	7.1	22	43	72	26	12	12	8.0
27....	10	13	13	10	7.0	23	45	63	24	12	13	12
28....	8.5	11	14	9.0	6.9	21	50	60	26	16	10	5.2
29....	9.5	10	14	8.6	....	22	57	59	24	18	8.5	5.6
30....	8.5	10	14	8.5	....	18	60	60	22	18	14	6.3
31....	8.0	....	14	8.3	....	18	....	63	....	18	13	....
Total	373.5	390	328.3	289.4	231.1	489.0	973	2064	1273	466	402.0	273.1
Mean.	12.0	13.0	10.6	9.34	8.25	15.8	32.4	66.6	42.4	15.0	13.0	9.10
Max..	25	24	14	15	11	24	60	74	72	22	20	14
Min...	8	7	6.3	7.1	6.2	6.9	20	59	22	11	8.5	4.2
Acre-ft.	741	774	651	574	458	970	1930	4090	2520	924	797	542

Total run-off for water year 1938-39=14,980 acre-feet.

Discharge of Cucharas River at Boyd Ranch Near La Veta, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.0	8.5	4.9	6.6	5.1	9.0	18	33	67	24	13	9.0
2....	5.6	7.0	5.6	7.0	5.2	8.8	17	34	62	24	11	9.0
3....	5.2	6.6	4.6	6.2	5.4	8.6	15	40	59	24	9.0	9.0
4....	6.0	7.0	4.2	5.0	5.5	8.9	14	47	53	30	9.0	8.5
5....	5.6	6.6	4.2	4.5	5.6	9.1	14	46	54	32	12	8.0
6....	5.2	6.3	4.2	4.0	5.5	8.8	14	44	50	28	14	8.0
7....	6.0	6.6	3.8	5.0	5.4	8.0	12	45	50	27	20	8.0
8....	6.3	6.3	3.8	6.0	5.0	8.6	10	48	48	26	16	8.0
9.. ..	6.0	5.6	4.2	6.1	5.3	9.4	12	45	50	23	12	7.0
10....	6.6	5.6	4.2	6.4	5.8	9.2	14	42	48	23	10	9.5
11....	6.6	6.6	4.2	6.6	5.9	8.6	12	46	43	22	12	10
12....	5.6	6.0	5.2	6.8	5.4	8.0	14	45	40	22	14	10
13....	5.6	5.6	7.0	5.0	6.2	8.2	14	46	35	22	10	9.5
14....	6.3	6.0	6.6	5.6	7.4	8.5	16	48	35	22	9.0	8.5
15....	6.0	6.6	5.6	6.2	7.0	8.0	20	49	40	22	9.0	8.0
16....	5.6	6.3	6.3	6.2	6.4	9.5	20	48	39	22	10	7.5
17....	6.6	6.3	5.6	5.6	5.8	8.0	20	61	39	20	11	9.0
18....	6.6	8.0	5.6	4.1	5.9	7.5	23	89	39	19	8.0	9.5
19....	6.3	8.0	4.6	4.0	6.0	9.5	26	82	35	20	11	8.5
20....	6.3	8.0	7.0	4.2	6.3	10	37	88	31	22	13	8.0
21....	6.3	8.0	7.0	4.3	6.5	12	49	92	30	22	12	8.5
22....	6.3	7.0	6.0	4.4	6.9	14	44	91	29	20	12	9.0
23....	6.0	6.3	5.4	4.2	7.0	16	40	83	29	18	14	9.0
24....	6.3	5.6	5.6	3.9	7.4	16	40	81	27	17	14	9.5
25....	6.3	8.5	4.2	4.4	8.0	18	42	82	26	16	12	9.0
26....	6.3	11.0	4.0	5.0	8.4	19	43	81	26	16	10	9.0
27....	6.0	8.5	4.0	5.4	8.8	20	47	74	25	14	9.0	8.0
28....	6.3	8.0	4.4	5.6	9.0	18	46	71	25	14	9.0	7.5
29....	7.0	9.0	5.0	5.6	9.0	15	39	76	27	14	10	7.5
30....	7.0	6.3	6.0	5.5	....	16	36	74	26	14	11	7.5
31....	8.0	....	6.7	5.2	....	17	....	71	....	13	9.5	....
Total	191.8	211.7	159.7	164.6	187.1	355.2	768	1902	1187	652	355.5	257.0
Mean.	6.19	7.06	5.15	5.31	6.45	11.5	25.6	61.4	39.6	21.0	11.5	8.57
Max..	8.0	11	7.0	7.0	9.0	20	49	92	67	32	20	10
Min...	5.2	5.6	3.8	3.9	5.0	7.5	10	33	25	13	8.0	7.0
Acre-ft.	380	420	317	326	371	705	1520	3770	2350	1290	705	510

Total run-off for water year 1939-40=12,660 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River at Aguilar, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.5	3.8	5.0	0.9	0.7	0.8	5.8	6.1	0	0	0	0
2....	0	0.9	6.3	0.3	0.6	1.0	9.9	2.9	0	0	0	0
3....	0.1	6.5	13	0.2	0.6	1.6	14	3.2	0	0	0	0
4....	0.3	1.3	2.3	0	0.7	0.6	15	4.8	0.4	0	0	0
5....	1.5	6.1	1.3	0.1	0.7	4.9	16	4.4	0.4	0	0	0
6....	0	1.6	2.1	0.1	1.0	8.2	12	6.5	0	0	0	0
7....	2.3	4.0	3.8	0	0.3	11	9.4	6.7	0.1	0	0	0
8....	35	13	2.5	0	0.2	12	6.9	6.9	0	0	14	20
9....	12	3.2	2.0	0	0	11	9.9	4.8	0	0	0	0
10....	8.4	7.2	3.4	0	0	13	16	3.6	0	0	0	0
11....	4.4	0.3	1.2	0	0.1	14	12	0	0	0	0	0
12....	2.7	5.2	0.6	0	0.9	14	18	0	0	0	0	0
13....	1.8	3.6	0.3	0	0.5	12	14	0.9	0	0	0	0.3
14....	4.8	2.7	0	0	0.2	10	17	0.5	0.3	0	0	0
15....	3.4	3.4	1.2	0	0.4	9.4	23	0.1	0	0	0	0
16....	3.6	1.3	0.4	0.1	0.2	9.2	21	0.5	0	0	0	0
17....	3.2	4.0	0.2	0.2	0.1	8.6	11	0.5	0	0	0	0
18....	4.2	3.8	0	0.4	0.2	9.2	15	0.5	0	0	0	0
19....	3.8	3.6	0	0.6	0.1	14	16	0.5	0	0	0	0
20....	3.2	2.0	0	1.0	0	14	14	0.5	0	0	160	0
21....	3.2	0.9	0	0.6	0	16	13	0.4	0	0	0	0
22....	3.4	0.7	0	0.1	0	18	12	0.1	0	0	0	0
23....	4.0	0.7	0	0.2	0	17	15	0.4	0	0	0	0
24....	3.8	0.8	0	0.3	0	17	13	0	0	0	0	0
25....	4.4	1.1	0.5	0.7	0	16	12	0	0	0	0	0
26....	2.3	1.0	0.1	0.5	0	17	14	1.8	0	0	0	0
27....	0.6	1.0	0	1.4	0	18	11	0	0	0	0	0
28....	1.0	1.2	0.3	0.8	0	14	7.9	0	0	0	0	0
29....	3.8	1.8	0	0.6	....	11	7.2	0.3	0	0	0	0
30....	1.2	3.2	0.3	0.7	....	9.9	6.5	0.4	0	0	0	0
31....	5.8	....	0.5	0.9	....	7.4	....	0	....	0	0	....
Total	128.7	89.9	47.3	10.7	7.5	339.8	387.5	57.3	1.2	0	174	20.3
Mean.	4.15	3.00	1.53	0.35	0.27	11.0	12.9	1.85	0.04	0	5.61	0.68
Max..	35	13	13	1.4	1.0	18	23	6.9	0.4	0	160	20
Min...	0	0.3	0	0	0	0.6	5.8	0	0	0	0	0
Acre-ft.	255	178	94	21	15	674	769	114	2.4	0	345	40

Total run-off for water year 1938-39=2,510 acre-feet.

Discharge of Apishapa River at Aguilar, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.2	0.2	0.3	0.4	0.1	0.2	1.9	6.5	2.2	0.4	0	0
2....	.2	.2	.3	.4	.1	.1	1.2	6.0	2.7	3.6	0	0
3....	.2	.1	.3	.2	.1	.1	1.2	6.5	2.2	.3	.1	.1
4....	.2	.1	.3	.3	.1	.4	2.7	8.8	2.7	2.2	.1	0
5....	.2	.1	.3	.2	.1	3.2	2.2	19	3.2	11	.1	0
6....	.2	.1	.3	.2	.1	.4	1.2	16	2.2	2.2	.2	0
7....	.2	.1	.3	.2	.1	2.7	3.6	17	2.2	3.6	1.9	0
8....	.2	.1	.2	.1	.1	3.6	.5	17	1.9	4.1	.1	0
9....	.2	.1	.2	.1	.1	8.2	1.5	15	1.5	1.2	0	0
10....	.1	.2	.2	.1	.1	5.6	4.1	8.2	1.2	.4	.1	.4
11....	.1	.2	.3	.2	.1	.8	3.6	4.1	.8	.4	.1	.1
12....	.1	.2	.2	.1	.1	3.2	6.0	4.1	.5	.2	.2	.1
13....	.1	.2	.2	.1	.1	8.2	6.0	4.1	.4	.2	.1	.1
14....	.2	.2	.4	.1	.1	7.0	6.5	4.6	.4	.2	0	.4
15....	.2	.2	.4	.1	.1	7.0	5.1	6.5	.4	.2	.1	.8
16....	.2	.2	.5	.2	.1	8.2	7.0	11	1.5	.2	0	.1
17....	.2	.1	.8	.2	.1	9.4	22	11	1.5	.1	.1	.1
18....	.2	.2	.5	.1	.1	6.5	25	18	1.5	.2	.1	.1
19....	.2	.2	.2	.1	.1	5.6	24	25	1.5	.2	0	.1
20....	.2	.2	.4	.1	.1	5.1	17	29	1.5	.2	.1	.1
21....	.2	.2	.4	.2	.1	6.5	14	30	1.5	.2	.1	.1
22....	.2	.2	.4	.1	.1	6.5	13	34	1.5	.2	.4	0
23....	.2	.2	.3	.1	.2	7.6	9.4	36	.8	.4	.3	.4
24....	.2	.1	.2	.1	.2	8.2	12	34	.4	.3	.1	0
25....	.2	.2	.3	.1	.2	8.8	12	34	.4	.3	.1	1.9
26....	.2	.2	.2	.1	9.4	8.8	11	33	.4	.3	.1	4.6
27....	.2	.2	.3	.1	15	6.5	12	23	.2	.4	.1	.2
28....	.1	.2	.2	.2	9.4	4.6	11	17	.2	.1	.1	.1
29....	.1	.2	.3	.2	6.0	2.7	11	11	.1	.4	0	0
30....	.2	.2	.3	.1	....	3.6	8.2	5.6	.2	.4	.1	.2
31....	.2	....	.4	.1	....	3.2	....	2.2	....	.2	.1	....
Total	5.6	5.1	9.9	4.9	42.6	152.5	255.9	497.2	37.7	34.3	4.9	10.0
Mean.	.18	.17	.32	.16	1.47	4.92	8.53	16.0	1.26	1.11	.16	.33
Max..	.2	.2	.8	.4	15	9.4	25	36	3.2	11	1.9	4.6
Min...	.1	.1	.2	.1	.1	.1	.5	2.2	.1	.1	0	0
Acre-ft.	11	10	20	9.7	84	302	508	986	75	68	9.7	20

Total run-off for water year 1939-40=2,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River Near Fowler, Colorado, for the Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.8	2.0	1.0	1.6	3.1	3.5	2.5	1.8	6.8	0.8	1.8	1.0
2....	1.5	1.8	1.0	1.6	2.8	14	2.5	1.3	6.8	0.8	1.1	1.0
3....	1.3	1.5	1.1	1.8	3.5	5.1	3.8	1.3	6.2	0.8	1.3	0.8
4....	1.5	1.3	2.3	1.8	3.8	2.2	3.5	1.3	5.4	0.8	0.8	0.6
5....	1.5	1.3	1.6	1.0	4.1	2.3	5.7	2.8	5.1	0.8	1.1	0.6
6....	1.6	0.8	1.8	1.3	4.7	12	4.1	2.8	4.7	0.8	0.8	1.1
7....	1.5	0.7	1.6	2.0	3.5	12	3.8	2.8	5.1	0.8	1.3	2.2
8....	1.6	0.8	1.6	2.3	5.7	4.7	3.8	4.7	5.1	0.8	0.8	5.4
9....	1.6	0.7	1.6	3.1	8.4	4.7	3.1	1.8	4.7	0.8	0.8	8.4
10....	1.6	0.7	1.6	3.8	7.8	5.1	3.1	2.5	4.4	0.8	0.7	1300
11....	1.8	0.6	1.3	4.1	4.4	7.8	2.5	2.8	4.1	0.8	0.8	2110
12....	1.8	1.8	1.5	2.5	2.5	11	2.2	2.0	3.8	1.0	0.8	39
13....	1.8	0.8	1.1	3.1	5.7	12	2.0	2.3	3.8	1.0	0.6	32
14....	2.0	0.6	1.3	2.5	5.1	15	2.0	2.3	3.1	30	0.7	45
15....	2.0	0.6	1.5	2.2	3.5	12	1.6	1.8	3.1	8.4	0.6	81
16....	2.3	0.6	1.3	1.5	2.8	4.4	2.2	1.6	2.5	1.3	0.6	43
17....	2.3	0.7	1.1	1.6	2.3	4.7	3.1	19	2.5	1.5	78	35
18....	2.3	0.8	1.0	2.0	2.2	20	4.6	70	2.5	1.5	741	31
19....	2.3	0.6	1.3	2.5	2.3	8.9	12	34	2.2	1.6	252	26
20....	1.6	0.6	1.1	2.8	2.8	8.9	7.3	17	2.2	1.8	104	22
21....	1.5	0.6	2.2	2.8	2.5	10	4.7	6.8	2.0	1.8	22	19
22....	1.5	0.6	12	3.1	2.2	11	4.1	6.2	1.8	2.0	41	20
23....	1.6	0.6	6.8	3.1	2.5	8.4	3.1	4.7	1.6	2.0	33	31
24....	1.6	0.6	10	3.1	1.8	5.7	2.5	3.8	1.6	2.2	29	192
25....	1.5	0.6	5.4	3.1	1.8	5.1	1.8	2.5	1.5	2.3	9.9	166
26....	1.5	0.8	1.6	3.1	2.0	4.4	2.3	2.5	1.3	2.3	5.1	135
27....	1.5	0.8	1.8	3.1	4.7	3.8	25	2.3	1.1	983	2.3	159
28....	1.8	1.1	2.0	3.1	5.1	2.8	16	2.3	1.1	33	1.6	70
29....	2.5	1.3	1.5	2.2	1.6	2.5	3.5	2.2	0.8	14	1.1	30
30....	2.8	0.8	0.7	2.0	....	2.5	2.5	3.5	0.8	6.8	1.1	20
31....	1.6	....	0.7	2.2	....	2.5	....	5.1	....	3.8	1.0	....
Total	55.1	27.1	72.4	76.0	105.2	229.0	140.9	217.8	97.7	1110.1	1336.7	4627.1
Mean.	1.78	0.90	2.34	2.45	3.63	7.39	4.70	7.03	3.26	35.8	43.1	154
Max..	2.8	2.0	12	4.1	8.4	20	25	70	6.8	983	741	2110
Min...	1.3	0.6	0.7	1.0	1.6	2.2	1.6	1.3	0.8	0.8	0.6	0.6
Acre-ft.	109	54	144	151	209	454	279	432	194	2200	2650	9180

Total run-off for water year 1939-40=16,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Trinidad, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	29	32	67	85	8.0	10	24	81	130	63	16	52
2....	35	42	42	81	7.1	11	24	116	138	49	35	42
3....	40	49	45	74	8.0	12	22	138	116	37	42	19
4....	40	35	35	52	15	13	40	130	130	32	94	16
5....	49	37	42	107	30	13	63	138	170	49	29	22
6....	45	40	52	37	40	11	90	125	161	40	81	27
7....	49	40	37	40	45	32	70	121	138	42	67	12
8....	586	40	32	40	42	37	70	125	116	74	81	40
9....	134	50	32	42	42	45	59	107	107	70	37	37
10....	121	56	29	42	56	35	56	103	103	52	24	35
11....	77	45	19	45	59	27	56	116	112	29	22	27
12....	74	45	18	32	81	19	70	130	112	29	16	11
13....	63	45	16	32	52	22	70	134	99	27	13	9.2
14....	67	56	16	22	32	29	52	138	90	24	15	15
15....	63	56	17	42	49	35	49	103	77	24	16	16
16....	63	52	17	42	40	32	59	99	63	35	19	42
17....	56	45	18	42	35	37	56	90	42	35	29	35
18....	63	42	18	35	40	35	74	81	37	24	40	27
19....	63	37	19	21	49	35	63	85	32	19	90	42
20....	56	52	20	21	35	45	49	90	49	24	210	32
21....	49	52	21	25	27	45	49	112	56	19	215	16
22....	45	50	21	37	22	49	49	112	42	13	121	12
23....	42	48	22	49	19	59	56	99	45	13	90	11
24....	40	47	23	67	19	67	63	81	45	15	70	13
25....	37	40	25	42	15	49	70	94	40	15	56	13
26....	35	35	30	59	16	42	74	180	40	19	42	18
27....	35	30	56	49	12	52	67	112	59	13	116	29
28....	35	33	52	32	10	49	63	103	67	27	166	27
29....	32	65	45	27	....	42	56	103	70	81	90	24
30....	24	74	56	45	....	37	70	90	70	70	85	27
31....	24	....	70	24	....	29	....	99	....	45	70	....
Total	2171	1370	1012	1390	905.1	1055	1733	3435	2556	1108	2097	748.2
Mean.	70.0	45.7	32.6	44.8	32.3	34.0	57.8	111	85.2	35.7	67.6	24.9
Max..	586	74	70	107	81	67	90	180	170	81	215	52
Min...	24	30	16	21	7.1	10	22	81	32	13	13	9.2
Acre-ft.	4310	2720	2010	2760	1800	2090	3440	6810	5070	2200	4160	1480

Total run-off for water year 1938-39—38,850 acre-feet.

Discharge of Purgatoire River at Trinidad, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	29	11	13	15	15	27	16	42	225	24	45	67
2....	22	11	16	14	14	32	16	40	235	67	42	29
3....	13	5.0	16	14	14	19	19	22	235	74	40	27
4....	13	7.8	16	13	15	19	19	22	250	90	35	29
5....	16	15	16	13	16	22	19	81	310	152	49	27
6....	13	12	16	12	15	22	27	90	225	81	99	29
7....	12	12	16	11	16	35	29	90	205	40	305	40
8....	12	13	16	12	15	15	37	112	190	35	152	35
9....	18	11	15	13	13	18	27	90	185	24	52	99
10....	32	16	12	14	15	19	19	37	180	27	37	592
11....	18	15	9.2	15	17	19	19	24	161	42	37	52
12....	19	13	18	15	12	19	19	42	143	56	40	18
13....	29	15	15	13	14	24	13	63	138	175	40	18
14....	27	15	6.4	10	16	12	6.4	77	130	130	40	18
15....	29	15	15	13	17	19	5.0	70	90	103	40	32
16....	32	19	12	14	15	19	4.5	63	77	121	40	19
17....	22	16	12	15	12	19	15	85	90	40	29	15
18....	22	16	11	15	11	19	35	205	74	24	22	32
19....	22	19	11	9	11	22	103	185	81	32	35	42
20....	16	18	10	8	11	19	90	125	77	49	103	63
21....	18	18	11	9	11	22	49	112	94	330	59	52
22....	24	17	11	8	12	24	42	152	99	107	81	63
23....	15	17	12	8	16	19	42	134	85	59	130	230
24....	11	16	11	8	18	19	37	112	85	35	85	138
25....	9.2	16	10	8	19	22	37	107	70	15	56	63
26....	12	13	9	10	19	19	42	148	56	11	49	52
27....	12	11	9	12	27	22	42	148	45	19	37	40
28....	13	16	10	14	24	22	42	245	42	19	35	40
29....	15	16	10	15	24	24	45	195	40	45	37	40
30....	5.0	16	11	16	....	19	42	180	32	90	67	37
31....	11	....	14	16	....	18	....	190	....	49	94	....
Total	561.2	430.8	389.6	382	454	649	957.9	3288	3949	2165	2012	2038
Mean.	18.1	14.4	12.6	12.3	15.7	20.9	31.9	106	132	69.8	64.9	67.9
Max..	32	19	18	16	27	35	103	245	310	330	305	592
Min...	5.0	5.0	6.4	8	11	12	4.5	22	32	11	22	15
Acre-ft.	1110	854	773	758	900	1290	1900	6520	7830	4290	3990	4040

Total run-off for water year 1939-40=34,260 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Nine Mile Dam near Higbee, Colorado, for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	17	44	7.0	14	19	29	4.0	6.9	14	69	3.0
2....	11	15	38	15	5.2	38	14	3.4	24	4.8	33	0.9
3....	11	28	40	15	3.4	29	4.6	4.6	36	3.2	149	0
4....	11	28	31	17	15	18	4.0	170	18	0.9	158	0
5....	10	21	22	14	14	33	4.6	36	7.3	0	65	0
6....	9.4	40	28	19	13	51	11	13	5.1	0	23	0
7....	9.4	31	26	19	12	44	46	6.5	2.0	0	19	0
8....	12	46	31	36	11	51	49	6.4	0	356	14	0
9....	220	34	28	42	11	53	57	5.6	0	269	25	0
10....	166	44	26	34	11	53	62	3.5	0	28	30	0
11....	105	44	26	24	13	50	69	2.4	0	12	13	0
12....	69	33	26	14	26	51	60	2.5	0	4.4	10	0
13....	51	24	24	17	21	46	53	19	0	1.8	16	0
14....	46	19	24	22	26	55	42	5.8	0	0	69	0
15....	34	15	23	2.8	29	46	36	3.5	0	0	49	0
16....	22	12	17	0.9	14	67	40	2.8	0	3.2	30	0
17....	18	15	24	0.8	26	74	47	2.7	0	1.2	15	0
18....	15	15	20	5.8	46	65	40	3.0	0	1.2	5.2	0
19....	15	18	18	11	26	67	40	2.8	0	0	15	0
20....	14	19	18	13	6.4	60	44	2.7	54	0	734	0
21....	13	13	31	24	27	69	40	1.8	74	0	136	0
22....	13	12	22	21	31	84	31	1.2	14	0	189	0
23....	19	0.6	22	26	22	95	24	0	1.8	24	100	0
24....	22	11	21	26	7.0	95	12	0	0	24	29	0
25....	21	8.2	21	33	9.4	102	9.4	0	1.2	3.8	26	0
26....	18	13	4.6	28	17	77	8.2	0	19	1.6	121	0
27....	19	19	7.0	33	0.7	84	6.4	0.8	44	4.6	175	0
28....	17	19	14	28	5.8	67	8.2	0.2	20	16	53	0
29....	24	31	13	31	....	53	8.2	18	41	120	27	0
30....	24	34	28	34	....	40	5.8	15	38	189	17	0
31....	21	....	21	28	....	36	....	6.1	....	120	10	....
Total	1070.8	678.8	738.6	641.3	462.9	1772	905.4	343.3	406.3	1202.7	2424.2	3.90
Mean.	34.5	22.6	23.8	20.7	16.5	57.2	30.2	11.1	13.5	38.8	78.2	0.13
Max..	220	46	44	42	46	102	69	170	74	356	734	3.0
Min...	9.4	0.6	4.6	0.8	0.7	18	4	0	0	0	5.2	0
Acre-ft.	2120	1350	1460	1270	918	3510	1800	681	806	2390	4810	7.7

Total run-off for water year 1938-39=21,120 acre-feet.

Discharge of Purgatoire River at Nine Mile Dam Near Higbee, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	7.6	5.0	2.2	40	25	12	40	222	0.2	11
2....	0	0	8.2	8.0	3.0	42	13	12	32	220	0	5.1
3....	0	0	8.2	10	3.5	38	13	11	26	12	4.9	2.0
4....	0	0	8.2	9.5	4.0	33	18	8.9	25	4	83	0.5
5....	0	0	6.2	8.2	4.5	34	14	7.3	14	27	127	35
6....	0	0	6.2	7.3	28	34	14	4.6	27	52	32	84
7....	0	0	6.5	9.0	21	40	12	3.9	111	37	15	20
8....	0	0	6.4	9.0	24	33	13	4.2	72	22	9.5	10
9....	0	0	7.0	9.5	24	33	11	3.9	136	11	3.5	5.7
10....	0	0	7.3	8.9	8.0	33	13	2.5	2090	6.2	0.7	4950
11....	0	0.3	6.5	9.0	15	33	33	1.8	310	4.5	3.4	1550
12....	0	1.6	5.7	9.7	20	44	22	2.0	21	102	6.6	253
13....	0	1.9	5.7	3.1	12	60	14	2.0	87	47	7.6	129
14....	0	2.2	6.8	3.0	10	44	6.4	2.0	57	50	1.2	84
15....	0	3.0	5.9	4.0	20	35	4.0	2.0	47	74	0	106
16....	0	3.3	5.7	4.0	25	33	4.0	2.5	38	28	49	63
17....	0	3.5	5.7	8.0	15	27	46	3.9	34	8.7	82	38
18....	0	3.5	4.6	3.0	15	27	84	6.4	31	2.2	461	25
19....	0	2.5	4.2	1.5	16	28	46	6.4	18	2.0	375	23
20....	0	3.7	4.0	1.0	18	30	189	77	9.4	1.0	136	22
21....	0	4.9	4.9	1.5	16	33	302	62	5.8	21	47	13
22....	0	5.4	4.5	1.0	14	30	194	89	33	9.0	23	16
23....	0	5.1	4.0	1.0	19	28	136	450	84	0.2	276	13
24....	0	5.6	2.9	2.0	20	30	97	133	49	0	209	74
25....	0	5.6	1.2	1.0	23	37	65	95	24	1.0	104	129
26....	0	4.5	1.0	1.0	27	45	40	51	9.4	3.2	19	118
27....	0	4.1	1.0	1.7	28	48	28	67	4.6	4.7	11	69
28....	0	5.6	1.3	2.0	58	48	25	250	3.4	1.6	5	55
29....	0	7.4	1.5	2.1	47	38	18	77	1.6	35	7	42
30....	0	10	2.0	2.4	....	42	14	100	0.7	13	10	32
31....	0	....	3.8	2.3	....	35	....	95	....	3.2	69	....
Total	0	83.7	154.7	148.7	540.2	1135	1513.4	1645.3	3440.9	1024.5	2177.6	7977.3
Mean.	0	2.79	4.99	4.80	18.6	36.6	50.4	53.1	115	33.0	70.2	266
Max..	0	10	8.2	10	58	60	302	450	2090	222	461	4950
Min...	0	0	1.0	1	2.2	27	4	1.8	0.7	0	0	0.5
Acre-ft.	0	166	307	295	1070	2250	3000	3260	6820	2030	4320	15820

Total run-off for water year 1939-40=39,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Highland (Carmen) Dam Near Las Animas, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.8	15	25	14	20	5	17	2.0	7.0	86	138	16
2....	6.7	12	26	25	15	10	20	1.6	4.1	35	54	7.8
3....	5.4	14	42	15	12	28	21	2.7	2.9	7.0	33	1.7
4....	4.8	24	41	14	14	57	19	38	15	2.7	163	0
5....	4.6	27	28	10	17	59	21	53	12	1.4	92	0
6....	4.6	35	21	11	16	151	28	23	6.7	1.2	71	0
7....	2.5	38	20	13	14	70	31	13	2.5	1.0	25	0
8....	2.1	58	19	25	13	40	80	9.5	1.1	2.3	17	0
9....	77	74	17	56	14	43	52	3.5	1.0	231	11	0
10....	358	56	13	44	17	66	47	1.1	1.0	78	5.1	0
11....	188	37	11	41	28	71	65	0.5	0.9	32	6.4	0
12....	105	31	9.2	22	36	45	63	0	0.7	12	8.7	0
13....	79	22	9.8	19	66	32	36	0.6	0	3.9	3.3	0
14....	54	20	9.5	21	37	28	25	1.1	0	2.7	23	0
15....	41	14	11	14	42	28	20	0.5	0	2.3	42	0
16....	25	12	17	16	35	32	21	0	0	2.0	54	0
17....	21	18	17	18	32	54	26	0	0	1.9	23	0
18....	16	17	17	15	48	55	25	0	0	0	11	0
19....	13	20	11	13	69	46	21	0	0	0	7.0	0
20....	12	21	17	13	34	54	23	0	0	0	947	0
21....	12	22	21	18	30	43	23	0	35	0	334	0
22....	10	20	18	19	42	49	20	0	46	0	132	0
23....	12	14	28	21	86	74	16	0	12	0	251	0
24....	16	12	28	26	69	83	13	0	5.7	0	116	0
25....	17	9.5	15	26	32	103	11	8.9	4.1	0	69	0
26....	16	9.0	15	21	39	63	11	26	1.7	0	34	0
27....	15	9.0	13	18	20	55	9.8	11	2.3	0	180	0
28....	15	9.4	12	15	10	74	8.9	9.5	21	0	138	0
29....	13	12	11	16	....	51	5.9	9.2	29	0	82	0
30....	16	16	13	25	....	28	0.5	8.7	66	141	36	0
31....	18	....	12	21	....	20	..	7.3	....	135	19	....
Total	1188.5	697.9	567.5	645	907	1617	780.1	230.7	277.7	778.4	3125.5	25.5
Mean.	38.3	23.3	18.3	20.8	32.4	52.2	26.0	7.44	9.26	25.1	101	0.85
Max..	358	74	42	56	86	151	80	53	66	231	947	16
Min...	2.1	9	9.2	10	10	5	0.5	0	0	0	3.3	0
Acre-ft.	2360	1380	1130	1280	1800	3210	1550	458	551	1540	6200	51

Total run-off for water year 1938-39=21,510 acre-feet.

Discharge of Purgatoire River at Highland (Carmen) Dam Near Las Animas, Colo., for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	0	2.6	0.5	63	29	17	88	0	8.4	15
2....	0	0	0	3.2	0.5	94	19	14	70	182	2.0	17
3....	0	0	0	4.0	0.6	88	13	13	49	40	0	11
4....	0	0	0	3.8	2.0	59	13	14	41	6.2	68	5.1
5....	0	0	0	3.3	6.0	40	13	11	326	1.4	186	2.3
6....	0	0	0	3.0	5.8	52	15	8.7	66	21	105	1.2
7....	0	0	0	2.5	8.9	65	18	7.0	58	44	37	23
8....	0	0	0	2.5	18	60	14	10	92	42	23	14
9....	0	0	0	2.4	18	50	13	8.7	70	9.2	11	6.2
10....	0	0	2.7	2.5	30	38	13	6.7	2570	1.0	6.4	1030
11....	0	0	4.4	2.5	31	37	16	3.3	669	0	27	2830
12....	0	0	4.9	3.2	27	50	20	2.3	180	0	31	318
13....	0	0	3.1	4.0	7.5	82	20	1.6	116	205	5.7	129
14....	0	0	2.7	4.2	9.2	78	16	0.8	92	69	3.1	96
15....	0	0	2.0	4.3	11	63	13	0.6	74	94	0.8	77
16....	0	0	3.7	4.4	5.1	38	12	0.6	59	55	0	96
17....	0	0	4.1	3.6	8.9	46	22	5.4	44	15	561	54
18....	0	0	3.9	3.2	4.9	51	53	19	31	6.2	107	32
19....	0	0	2.5	3.0	13	65	67	14	23	3.9	459	23
20....	0	0	1.9	3.4	13	54	57	22	17	2.9	318	17
21....	0	0	1.9	3.3	13	44	218	94	13	1.7	110	16
22....	0	0	2.1	3.3	16	46	212	84	9.2	115	50	12
23....	0	0	1.9	3.0	16	28	132	259	6.4	14	64	11
24....	0	0	1.3	2.5	19	29	99	281	70	0.6	126	11
25....	0	0	1.3	2.4	22	31	76	119	37	0	103	90
26....	0	0	1.0	2.0	24	41	57	72	12	1450	50	142
27....	0	0	0.8	2.0	29	63	44	55	5.4	129	24	92
28....	0	0	0.9	2.0	32	59	35	334	1.7	13	20	58
29....	0	0	1.0	1.6	88	55	23	119	0	4.1	17	35
30....	0	0	1.3	1.0	....	43	20	65	0	71	14	223
31....	0	....	1.8	0.8	....	48	....	129	....	59	11	....
Total	0	0	51.2	89.5	479.9	1660	1372	1790.7	4889.7	2655.2	2548.4	5486.8
Mean.	0	0	1.65	2.89	16.5	53.5	45.7	57.8	163	85.7	82.2	183
Max..	0	0	4.9	4.4	88	94	218	334	2570	1450	561	2830
Min...	0	0	0	0.8	0.5	28	12	0.6	0	0	0	1.2
Acre-ft.	0	0	102	178	952	3290	2720	3550	9700	5270	5050	10880

Total run-off for water year 1939-40=41,690 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Wild Horse Creek Near Holly, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	0	1.5	5.2	0	0	1.4	16	0	0	0
2....	....	....	0	1.5	4.1	0	0	0	33	4.2	0	0
3....	....	....	0	1.0	4.1	0	0	0	18	11	0	0
4....	....	....	0	101	4.1	0	4.4	0	14	9	0	0
5....	....	....	0	16	4.1	0	34	0	14	5.6	0	0
6....	....	....	3.8	5.9	4.1	0	19	0	8.4	2.4	0	0
7....	....	....	12	4.6	4.1	12	8.1	0	6.6	0	0	0
8....	....	....	39	12	39	6	12	0	7.2	0	0	0
9....	....	....	4.3	4.8	12	15	9	0	5.6	0	0	0
10....	....	....	0	3.1	6.4	34	29	0	7.2	0	0	0
11....	....	....	0	9.7	12	46	54	0	9.6	0	0	0
12....	....	....	0	9.1	9.1	20	39	0	35	0	0	0
13....	....	....	0.2	6.7	33	15	6	0	0	0	0	0
14....	....	....	0.2	108	0	7.8	5.6	0	0	0	0	0
15....	....	Nov. 17	0	48	0	0	5	0	0	0	0	0
16....	....	to 30	0	9.1	0	0	0	2.0	0	0	0	0
17....	....	6.9	0	0	0	39	0	1.2	0	0	0	0
18....	....	6.0	0	0	0	61	0	0	0	0	0	0
19....	....	5.0	0	0	0	30	0	0	0	0	0	0
20....	....	5.0	0	5.2	0	18	3.6	0.4	0	0	0	0
21....	....	3.0	0	22	0	11	20	17	0	0	0	0
22....	....	0	0	20	0	5.8	24	5	0	0	0	0
23....	....	0	0	25	0	3.6	22	1.3	0	0	0	0
24....	....	0	0.4	19	0	2.0	21	0	0	0	0	0
25....	....	0	0	6.4	0	0	13	0	0	0	0	0
26....	....	1.0	0	1.9	0	0	8.7	26	0	0	0	0
27....	....	0	0	0.5	0	0	4.8	9	0	0	0	0
28....	....	0	0	0.3	0	5.8	4.2	7.8	0	0	0	0
29....	....	1.5	0	0.2	....	28	4.4	12	0	0	0	0
30....	....	1.0	0	2.2	....	20	3.8	0	0	0	0	0
31....	....	....	0	64	....	4	....	0	....	0	0	....
Total	....	29.4	59.9	508.7	141.3	384.0	354.6	83.1	174.6	32.2	0	0
Mean.	....	2.1	1.93	16.4	5.05	12.4	11.8	2.68	5.82	1.04	0	0
Max..	....	6.9	39	108	39	61	54	26	35	11	0	0
Min...	....	0	0	0	0	0	0	0	0	0	0	0
Acre-ft.	....	58	119	1010	280	762	703	165	346	64	0	0

Total run-off for period=3,507 acre-feet.

Discharge of Wild Horse Creek Near Holly, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	5.1	10	0	4.5	0	0	13	0	0	0
2....	0	0	4.9	10	0	0.1	4.6	0	10	0	0	0
3....	0	0	5.3	10	0	0	6.0	0	17	0	0	0
4....	0	0	5.5	10	0	0	4.3	0	13	0	0	0.1
5....	0	0	6.0	10	0	0	3.3	0	5.1	0	0	0.1
6....	0	0	7.0	10	0	0	2.5	0	35	0	0	0
7....	0	0	7.8	10	0	0	3.3	0	55	0	0	0
8....	0	0	7.8	10	0	0	2.0	83	12	0	3.0	0
9....	0	0	8.3	11	0	0	1.2	0.4	16	0	0	0
10....	0	0	8.6	11	0	0	0.4	0	22	0	0	0
11....	0	0	8.6	11	0	0	4.3	0	17	0	0	0
12....	0	0	8.3	11	0	0	4.9	0	55	0.2	0	2.6
13....	0	0	8.6	10	0	0	5.3	0	42	0	0	2.2
14....	0	0	10	8	0	0	5.5	2.2	22	0	0	3.6
15....	0	0	9.5	6	0	0	3.5	3.6	18	0	0	1.8
16....	0	0	9.5	2	0	0	0	0	16	0	0	0.8
17....	0	0	9.2	2	0	0	0	0	10	0	2.3	0.1
18....	0	0	8.3	0	0	0	0	0	8.9	0	0	0
19....	0	0	8.0	0	0	0	0	0	6.2	0	0	0
20....	0	0	8.0	0	0	0	0	0	2.3	0	0.3	0
21....	0	0	10	0	0	0	0	0	3.9	0	0	0
22....	0	0.3	10	0	0	0	0	0	0	0	0	0
23....	0	0.3	10	0	0	0	0	0	0	0	0	0.5
24....	0	0.5	10	0	0	0	0	0	0	0	0	0.7
25....	0	8.0	9	0	0	0	0	0	0	0	0.1	0
26....	0	5.5	9	0	0	0	0.8	0	0	0	0	0
27....	0	5.5	9	0	0	0	0	0	0	0	0	0
28....	0	5.5	9	0	0	0.4	1.2	0	0	0	0	0
29....	0	5.5	9	0	2.0	0.3	3.3	10	0	0	0	0.5
30....	0	5.5	9	0	....	0.2	3.7	9.5	0	0	0	4.1
31....	0	....	9	0	....	0.2	....	13	....	0	0	....
Total	0	36.6	257.3	152	2.0	5.7	60.1	121.7	399.4	0.2	5.7	17.1
Mean.	0	1.22	8.3	4.9	0.07	0.18	2.00	3.93	13.3	0.01	0.18	0.57
Max..	0	8.0	10	11	2.0	4.5	6.0	83	55	0.2	3	4.1
Min...	0	0	4.9	0	0	0	0	0	0	0	0	0
Acre-ft.	0	73	510	301	4	11	119	241	792	0.4	11	34

Total run-off for water year 1939-40=2,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Holly Drain Near Holly, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.0	22	43	12	6.8	12	13	34	32	18	15	4.8
2....	7.0	18	50	12	9.4	12	44	66	30	17	15	3.0
3....	4.1	18	58	11	9.4	12	44	39	11	15	21	2.4
4....	4.1	19	50	10	10	12	28	30	8.1	14	14	2.0
5....	3.1	21	47	10	10	12	34	28	11	13	12	2.8
6....	2.6	20	30	14	10	13	38	26	14	9.3	11	3.2
7....	1.8	31	34	14	10	13	24	23	16	7.1	14	3.0
8....	2.8	43	51	13	10	7.5	32	17	19	5.5	18	3.2
9....	89	38	32	13	10	8.4	23	11	22	6.0	15	4.0
10....	40	54	28	12	10	7.8	21	11	21	8.7	15	4.5
11....	34	41	25	12	10	8.4	14	7.3	44	8.7	13	4.5
12....	48	44	20	11	10	12	12	9.0	42	13	12	4.0
13....	79	42	18	10	10	14	32	12	28	15	9.6	2.0
14....	77	41	16	13	10	12	31	8.7	28	18	10	0.9
15....	71	27	15	15	10	8.1	28	7.6	21	15	9.8	0.9
16....	48	22	15	17	10	7.1	21	26	20	15	10	2.8
17....	37	22	14	16	10	6.8	15	17	18	15	10	4.0
18....	36	23	14	15	10	6.8	10	11	18	15	12	4.0
19....	36	44	14	17	10	7.1	8.7	8.7	17	15	10	4.0
20....	42	36	11	19	10	11	6.5	10	17	13	10	4.5
21....	40	30	9.4	20	11	13	19	8.1	17	14	11	7.3
22....	35	29	10	19	11	9.8	21	19	25	18	15	3.0
23....	36	29	11	18	11	7.8	13	11	18	19	15	3.0
24....	36	29	11	14	11	7.1	7.6	14	10	21	14	3.5
25....	35	30	12	12	11	7.1	8.1	25	11	20	13	3.2
26....	39	31	12	10	12	9.6	8.1	28	8.1	15	18	5.0
27....	44	31	12	8.5	12	13	7.6	27	14	15	18	5.5
28....	27	32	12	8.0	12	67	7.3	27	9.0	16	11	5.0
29....	26	33	12	8.0	....	67	6.8	32	11	15	11	4.2
30....	24	32	12	7.9	....	48	6.5	24	25	15	8.7	4.5
31....	24	....	12	7.9	....	23	....	28	....	15	6.0	....
Total	1037.5	932	710.4	399.3	286.6	475.4	584.2	645.4	585.2	439.3	397.1	108.7
Mean.	33.5	31.1	22.9	12.9	10.2	15.3	19.5	20.8	19.5	14.2	12.8	3.62
Max..	89	54	58	20	12	67	44	66	44	21	21	7.3
Min...	1.8	18	9.4	7.9	6.8	6.8	6.5	7.3	8.1	5.5	6.0	0.9
Acre-ft.	2060	1850	1410	792	568	943	1160	1280	1160	871	788	216

Total run-off for water year 1938-39=13,098 acre-feet.

Discharge of Holly Drain Near Holly, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.5	13	9.6	11	8.7	3.8	6.3	15	21	12	11	9.6
2....	5.0	13	9.8	12	8.7	5.2	6.0	19	21	12	8.4	8.7
3....	5.8	17	9.8	12	8.7	3.0	5.8	16	19	12	11	8.7
4....	6.0	13	9.8	14	8.7	11	6.0	15	21	9.6	9.8	8.4
5....	7.8	13	10	14	11	12	5.8	15	25	9.3	9.0	9.3
6....	11	13	12	15	9.0	7.6	6.0	16	33	10	7.6	13
7....	12	17	12	15	9.3	7.3	5.8	15	41	11	7.8	12
8....	11	13	11	15	8.4	7.8	6.0	90	22	9.8	9.8	7.6
9....	10	13	11	15	7.3	7.6	6.3	32	21	10	9.6	7.6
10....	10	13	11	15	7.6	6.8	7.6	23	39	10	6.3	8.1
11....	11	14	11	15	9.6	7.1	12	21	30	10	6.3	8.7
12....	12	13	11	13	8.1	6.3	12	20	34	11	7.5	13
13....	16	17	11	15	7.8	6.8	13	19	34	13	7.1	14
14....	14	13	11	19	8.4	4.5	13	17	30	12	6.0	20
15....	12	13	11	13	7.8	5.0	13	17	25	11	5.5	19
16....	12	13	11	14	7.5	5.2	13	17	21	10	4.2	18
17....	14	13	10	14	6.8	5.0	15	19	17	10	66	17
18....	15	15	11	14	7.3	6.0	14	20	15	9.8	17	17
19....	16	14	11	14	9.3	6.8	13	18	13	9.6	13	15
20....	16	10	11	13	7.5	7.3	12	16	12	8.4	12	13
21....	16	11	11	13	5.0	7.1	12	16	13	7.6	12	9.6
22....	16	10	11	13	7.5	6.8	13	16	11	7.6	11	7.8
23....	16	10	11	13	4.5	7.5	13	16	9.6	7.3	10	12
24....	16	12	10	13	4.0	6.0	13	19	11	6.8	9.3	18
25....	12	12	9.8	13	4.0	6.3	12	19	11	5.8	9.0	10
26....	10	12	10	13	4.0	6.3	14	19	11	7.5	11	11
27....	10	12	19	12	3.8	5.8	17	21	13	7.5	11	11
28....	16	10	10	12	3.2	5.8	26	23	12	5.0	10	16
29....	12	10	12	12	3.5	5.5	17	23	11	5.2	10	23
30....	12	11	11	11	....	5.8	14	23	12	5.5	12	38
31....	13	....	12	10	....	6.0	....	23	....	8.1	10	....
Total	371.1	383	341.8	417	207.0	201.0	342.6	658	608.6	284.4	350.2	404.1
Mean.	12.0	12.8	11.0	13.5	7.14	6.48	11.4	21.2	20.3	9.17	11.3	13.5
Max..	16	17	19	19	11	12	26	90	41	13	66	38
Min...	5	10	9.6	10	3.2	3	5.8	15	9.6	5	4.2	7.6
Acre-ft.	736	760	678	827	411	399	680	1310	1210	564	695	802

Total run-off for water year 1939-40=9,070 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

RIO GRANDE RIVER BASIN

RIO GRANDE RIVER AT THIRTY MILE BRIDGE NEAR CREEDE, COLORADO

Location—Water stage recorder in Sec. 13, T. 40 N., R. 4 W., 20 miles southwest of Creede and 3/4 mile below Rio Grande Reservoir. Squaw Creek enters just below station.

Drainage Area—163 square miles. Altitude, 9,380 feet above mean sea level.

Records Available—June 18, 1909, to September 30, 1923; May 16, 1925, to September 30, 1940.

Maximum discharge observed during period 1909-23, 1925-40; 7,500 second feet, June 28, 1927. Gage height 7.03 feet.

Maximum Discharge—Year 1939; 1,180 second feet, May 30, 1939. Gage height 3.55 feet.

Maximum Discharge—Year 1940; 1,380 second feet, May 17, 1940. Gage height 3.79 feet.

Accuracy—Records considered excellent except for those from November 3, 1938, to April 16, 1939, and from November 19, 1939, to March 19, 1940; computed on basis of reservoir gate openings.

Diversions for storage above station. Flow regulated by Rio Grande Reservoir just above station; capacity 45,800 acre-feet.

RIO GRANDE RIVER AT WASON, BELOW CREEDE, COLORADO

Location—Water stage recorder in Sec. 8, T. 41 N., R. 1 E., at Wason, 3 miles southeast of Creede.

Drainage Area—705 square miles. Altitude, 8,591 feet above mean sea level.

Records Available—April 24, 1907, to September 30, 1940.

Maximum discharge observed during period 1907-40; 9,750 second feet, June 28, 1927. Gage height 7.76 feet.

Maximum Discharge—Year 1939; 2,440 second feet, June 5, 1939. Gage height 3.20 feet.

Maximum Discharge—Year 1940; 2,100 second feet, May 15, 1940. Gage height 3.05 feet.

Accuracy—Records considered good except for period of ice effect from December 25, 1938, to March 9, 1939, and from November 21-27 and December 14, 1939, to March 11, 1940, which were computed on basis of 3 and 4 discharge measurements, gage heights and weather reports, and are fair.

Diversions for irrigation above station. Flow regulated by three reservoirs; total capacity, 117,600 acre-feet.

RIO GRANDE RIVER NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 30, T. 40 N., R. 5 E., 6 miles west of Del Norte at State Bridge. From 1889 to September, 1907, station was maintained 4 miles below present station. Records are comparable.

Drainage Area—1,320 square miles. Zero of gage is 7,982.21 feet above mean sea level.

Records Available—October 11, 1889, to September 30, 1940.

Maximum discharge observed during period 1889-40; about 18,000 second feet (revised), October 5, 1911. Gage height 6.80 feet from rating curve extended above 6,000 second feet.

Maximum Discharge—Year 1939; 3,550 second feet, May 22, 1939. Gage height 3.56 feet.

Maximum Discharge—Year 1940; 2,810 second feet, May 15, 1940. Gage height 3.18 feet.

Accuracy—Records considered excellent except for period of ice effect from November 25, 1938, to December 5, and December 24 to March 24, 1939, and December 14, 1939, to March 15, 1940, which were computed on basis of 4 discharge measurements, weather and temperature records, and are good.

Diversions for irrigation above station. Flow regulated by three reservoirs above station; total capacity 117,600 acre-feet.

RIO GRANDE RIVER NEAR MONTE VISTA, COLORADO

Location—Water stage recorder in Sec. 19, T. 39 N., R. 8 E., N. M. P. M., where Gunbarrel highway crosses river two miles north of Monte Vista.

Drainage Area—1,740 square miles. Zero of gage is 7,654.54 feet above mean sea level.

Records Available—May 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 18,500 second feet, June 30, 1927. Gage height 7.85 feet.

Maximum Discharge—Year 1939; 1,330 second feet, May 20, 1939. Gage height 3.00 feet.

Maximum Discharge—Year 1940; 1,070 second feet, May 18, 1940. Gage height 2.74 feet.

Accuracy—Records considered good except those estimated during ice period November 25 to December 7, and December 18, 1938, to March 20, 1939, and those for ice effect period November 27; December 10, 16, 1939, to March 4, 1940, based on 2 and 5 discharge measurements, weather records, and comparison with records for station near Del Norte, and are fair.

Diversions for irrigation above station. Flow regulated by three main reservoirs; total capacity 117,600 acre-feet and several small reservoirs.

RIO GRANDE RIVER AT ALAMOSA, COLORADO

Location—Water stage recorder in SE¼ Sec. 4, T. 37 N., R. 10 E., a quarter of a mile northwest of Alamosa. Prior to November 6, 1935, at site in Alamosa.

Drainage Area—1,840 square miles. Zero of gage is 7,533.66 feet above mean sea level.

Records Available—May 15, 1912, to September 30, 1940.

Maximum discharge observed during period 1912-40; 14,000 second feet, July 1, 1927. Gage height 8.37 feet.

Maximum Dicharge—Year 1939; 932 second feet, March 24, 1939. Gage height 3.92 feet.

Maximum Discharge—Year 1940; 405 second feet, March 7, 1940. Gage height 2.35 feet.

Accuracy—Records considered good except for period of ice effect from December 5-8, 16, 1938, to March 15, 1939, and December 25, 1939, to March 6, 1940, computed on basis of 3 and 4 discharge measurements, gage heights and weather records, and are fair. Discharges estimated for period missing gage heights November 13, 24 to December 4, 1938, and October 10-16, 1939.

Diversions for irrigation above station.

RIO GRANDE RIVER ABOVE MOUTH OF TRINCHERA CREEK NEAR LAS SAUSES, COLORADO

Location—Water stage recorder in Sec. 35, T. 36 N., R. 11 E., a quarter of a mile above mouth of Trinchera Creek and five miles north of Las Sauses.

Records Available—May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 2,580 second feet, June 16, 1938. Gage height 7.02 feet.

Maximum Discharge—Year 1939; 1,210 second feet, March 25, 1939. Gage height 4.66 feet.

Maximum Discharge—Year 1940; 270 second feet, March 14, 1940. Gage height 2.31 feet.

Accuracy—Records good. Those for ice effect period January 16, 1939, to March 20, 1939, computed on basis of two discharge measurements and weather records and for ice period December 3-8, 13, 16, 1939, to March 13, 1940, computed on basis of 7 discharge measurements and weather records.

Diversions for irrigation above station.

RIO GRANDE RIVER NEAR LOBATOS, COLORADO

Location—Water stage recorder in Sec. 22, T. 33 N., R. 11 E., 6 miles north of Colorado-New Mexico line at highway bridge and 10 miles east of Lobatos.

Drainage Area—7,700 square miles (includes 2,940 square miles in closed basin). Zero of gage is 7,426.79 feet above mean sea level.

Records Available—June 28, 1899, to September 30, 1940.

Maximum discharge observed during period 1899-1940; 13,100 second feet, June 8, 1905.

Maximum Discharge—Year 1939; 1,640 second feet, March 24, 1939. Gage height 3.02 feet.

Maximum Discharge—Year 1940; 1,190 second feet, May 19, 1940. Gage height 2.59 feet.

Accuracy—Records considered excellent except for periods of ice effect November 24, 1938, to March 19, 1939, and November 20-22; December 13, 1939, to February 5, March 1-5, 1940, which were computed on basis of 3 and 4 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CLEAR CREEK BELOW CONTINENTAL RESERVOIR, COLORADO

(Formerly called North Clear Creek)

Location—Water stage recorder in Sec. 22, T. 42 N., R. 3 W., 1,000 feet below Continental Reservoir and 15 miles west of Creede, Colorado.

Drainage Area—49 square miles.

Records Available—May 1, 1929, to September 30, 1940.

Maximum discharge observed during period 1929-40; 313 second feet, May 4, 1937. Gage height 3.41 feet.

Maximum Discharge—Year 1939; 234 second feet, May 6 and 7, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 143 second feet, May 9, 1940. Gage height 2.01 feet.

Accuracy—Records considered good except those for October 16 to November 4, 19, 1938, to April 17, 1939; and October 2-13, November 26, 1939, to April 22, 1940, and August 29, September 15-21, 1940, which were estimated and computed on basis of gate openings at Continental Reservoir above station, and are fair.

Flow regulated by Continental Reservoir above station; capacity 26,700 acre-feet.

GOOSE CREEK NEAR WAGON WHEEL GAP, COLORADO

Location—Water stage recorder in NW¼ Sec. 26, T. 40 N., R. 1 E., 2 miles below Humphrey Reservoir and 7 miles above mouth at Wagon Wheel Gap.

Drainage Area—51 square miles.

Records Available—October 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 181 second feet, May 13, 1940. Gage height 1.84 feet.

Maximum Discharge—Year 1940; 181 second feet, May 13, 1940. Gage height 1.84 feet.

Accuracy—Records considered good except for period of missing gage heights from October 1-23; November 4-6, 1939; August 19-27; September 9-10, 1940, which were estimated and are fair. Discharges for period of ice effect, December 29, 1939, to February 14, 1940, computed on basis of 3 discharge measurements, observer's daily chain gage readings and comparison with record of South Fork at South Fork, and are fair.

No diversions for irrigation above station. Flow is not regulated, as Humphrey Reservoir is used for a fish pond and is not regulated.

SOUTH FORK RIO GRANDE RIVER AT SOUTH FORK, COLORADO

Location—Water stage recorder in Sec. 4, T. 39 N., R. 3 E., 1¼ miles above mouth and 1½ miles southwest of South Fork. Records 1910-20 were obtained at a site one mile downstream and are comparable.

Drainage Area—216 square miles. Zero of gage is 8,221.79 feet above mean sea level.

Records Available—August, 1910, to December, 1920; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1910-20, 1936-40; about 5,000 second feet, October 5, 1911.

Maximum Discharge—Year 1939; 972 second feet, June 4, 1939. Gage height 3.97 feet.

Maximum Discharge—Year 1940; 614 second feet, May 29, 1940. Gage height 3.31 feet.

Accuracy—Records considered good except those for period of missing gage heights, October 1-25; November 4-18, 1938, and March 24, 1939, and during ice period, November 24, 1938, to March 24, 1939, and from November 16, 1939, to March 22, 1940, which were estimated on basis of 5 and 6 discharge measurements and weather records, and are fair.

Diversions for irrigation and several small storage reservoirs above station.

PINOS CREEK NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 29, T. 39 N., R. 5 E., just below mouth of Bennett Creek, and eight miles southwest of Del Norte.

Drainage Area—53 square miles.

Records Available—May, 1919, to September, 1924; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 720 second feet (determined by slope-area method) August 3, 1936. Gage height 4.19 feet. Max. daily discharge, 2,400 second feet, June 3, 1922.

Maximum Discharge—Year 1939; 115 second feet, May 17, 1939. Gage height 1.60 feet.

Maximum Discharge—Year 1940; 119 second feet, July 21, 1940. Gage height 1.63 feet.

Accuracy—Records considered excellent.

One small diversion for irrigation above station.

SAN FRANCISCO CREEK NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 31, T. 39 N., R. 6 E., 1¼ miles below mouth of East Fork and 6 miles south of Del Norte.

Drainage Area—13.1 square miles.

Records Available—April, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 364 second feet (slope-area method), July 27, 1936. Gage height 1.47 feet.

Maximum Discharge—Year 1939; 30 second feet, May 10, 1939. Gage height 0.73 feet.

Maximum Discharge—Year 1940; 25 second feet, August 18, 1940. Gage height 0.68 feet.

Accuracy—Records considered good except those estimated for April 1-8, 1940, and May 16-19, 1940, which are fair.

Small diversions for irrigation above station.

ROCK CREEK NEAR MONTE VISTA, COLORADO

Location—Water stage recorder in Sec. 36, T. 38 N., R. 6 E., 3 miles below North Fork and 9 miles southwest of Monte Vista. April, 1919, to September, 1924, water stage recorder 1½ miles downstream.

Drainage Area—33.6 square miles.

Records Available—April, 1919, to September, 1924; May, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 154 second feet, August 11, 1935. Gage height 2.65 feet.

Maximum Discharge—Year 1939; 54 second feet, May 9, 1939. Gage height 1.37 feet.

Maximum Discharge—Year 1940; 31 second feet, May 3, 1940. Gage height 0.97 feet.

Accuracy—Records considered good except those estimated

October 25-31, 1938, and those for May 19-25; August 14-20; October 28-30; November 5-6, 1939; April 3-4, 10-12; May 9; August 18-20, 1940.

Diversions for irrigation above station.

ALAMOSA RIVER ABOVE TERRACE RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 8, T. 36 N., R. 6 E., 3 miles above Terrace Reservoir Dam and 15 miles northwest of Capulin.

Drainage Area—107 square miles.

Records Available—September, 1911, to June, 1912; April, 1914, to October, 1919; October, 1923, to September, 1927; October, 1934, to September 30, 1940.

Maximum daily discharge observed during period 1911-12; 1914-19; 1923-27; 1934-40; 4,250 second feet, October 5, 1911.

Maximum Discharge—Year 1939; 698 second feet, May 19, 1939. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 629 second feet May 15, 1940. Gage height 2.90 feet.

Accuracy—Records considered good except for estimated periods, September 5-6, 13-15, 21-22, 26-29, 1940.

No diversions above station.

ALAMOSA RIVER BELOW TERRACE RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 23, T. 36 N., R. 6 E., in canon ½ mile below Terrace Dam and 11 miles northwest of Capulin.

Drainage Area—116 square miles. Altitude, 8,400 feet above mean sea level.

Records Available—April 18, 1909, to November 30, 1912; April 1, 1915, to October 31, 1915; February 1, 1917, to October 31, 1920; April 1, 1922, to September 30, 1940.

Maximum daily discharge observed during period 1909-12, 1915, 1917-20, 1922-40; 1,450 second feet, June 16, 17, 18, 1917.

Maximum Discharge—Year 1939; 570 second feet, May 11, 1939. Gage height 3.65 feet.

Maximum Discharge—Year 1940; 406 second feet, May 17, 1940. Gage height 3.26 feet.

Accuracy—Records considered good. Winter flows estimated on basis of reservoir gate openings from November 25, 1938, to March 23, 1939, and from October 30, 1939, to March 17, 1940.

Diversions for storage above station. Flow regulated by Terrace Reservoir; capacity 17,700 acre-feet.

LA JARA CREEK AT GALLEGOS RANCH NEAR CAPULIN, COLORADO

Location—Water stage recorder in Sec. 34, T. 34 N., R. 7 E., 2 miles above old station called "La Jara Creek near Capulin, Colorado" (records not comparable), and 11 miles southwest of Capulin.

Drainage Area—79 square miles.

Records Available—May 1, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 653 second feet April 15, 1937. Gage height 5.94 feet.

Maximum Discharge—Year 1939; 133 feet, April 8, 1939. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 50 feet, May 23, 1940. Gage height 2.29 feet.

Accuracy—Records considered good. No records November 4, 1938, to March 24, 1939, and from November 10, 1939, to March 25, 1940.

Diversion for storage and irrigation above station. Flow regulated by La Jara Reservoir; capacity 14,040 acre-feet.

TRINCHERA CREEK ABOVE TURNER RANCH NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 2, T. 31 S., R. 71 W., above Turner ranch and 7 miles southeast of Fort Garland. Station just below north and south forks.

Drainage Area—45 square miles.

Records Available—April 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1923-40; 318 second feet, May 23, 1926. Gage height 2.54 feet.

Maximum Discharge—Year 1939; 90 second feet, July 30, 1939. Gage height 1.38 feet.

Maximum Discharge—Year 1940; 119 second feet, May 17, 1940. Gage height 1.55 feet.

Accuracy—Records considered excellent.

No diversions above station.

TRINCHERA CREEK ABOVE MOUNTAIN HOME RESERVOIR, NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 31, T. 30 S., R. 71 W., 1,500 feet above Mountain Home Reservoir, and 5 miles southeast of Fort Garland. Station moved 500 feet upstream in 1939, above any backwater effect from high water in reservoir. Records comparable.

Drainage Area—61 square miles.

Records Available—May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1923-40; 385 second feet, May 24, 1926. Gage height 1.84 feet.

Maximum Discharge—Year 1939; 190 second feet, July 30, 1939. Gage height 1.58 feet.

Maximum Discharge—Year 1940; 56 second feet, June 3, 1940. Gage height 0.68 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

TRINCHERA CREEK BELOW SMITH RESERVOIR NEAR BLANCA, COLORADO

Location—Water stage recorder in Sec. 5, T. 31 S., R. 73 W., 1 mile below Smith Reservoir and 5 miles southwest of Blanca, and 500 feet west of bridge on Blanca-San Acacia highway.

Drainage Area—396 square miles.

Records Available—October 1, 1929, to September 30, 1940.

Maximum discharge observed during period 1924-40; 584 second feet, April 18, 1937. Gage height 5.20 feet.

Maximum Discharge—Year 1939; 178 second feet, April 5, 1939. Gage height 2.95 feet.

Maximum Discharge—Year 1940; 34 second feet, April 30, 1940. Gage height 1.26 feet.

Accuracy—Records considered good. No records November 3, 1938, to March 16, 1939, and from November 1, 1939, to March 30, 1940.

Diversions for irrigation and storage above station. Flow regulated by Smith Reservoir; capacity 5,335 acre-feet.

SANGRE DE CRISTO CREEK NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 23, T. 30 S., R. 72 W., 1½ miles east of Fort Garland on Turner ranch road.

Drainage Area—187 square miles.

Records Available—March 15 to October 9, 1916; May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1916, 1923-40; 1,520 second feet (slope-area method), August 31, 1936. Gage height 6.10 feet.

Maximum Discharge—Year 1939; 185 second feet, May 3, 1939. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 79 second feet, April 22, 1940. Gage height 2.18 feet.

Accuracy—Records considered good except those for periods of ice effect and missing gage heights, October 1-4, 1938; April 26-28, 1939, and October 8-31, 1939, which were estimated and are fair. No records November 3, 1938, to March 28, 1939, and from November 1, 1939, to March 31, 1940.

Diversions for irrigation above station.

UTE CREEK AT FORKS NEAR FORT GARLAND

Location—Water stage recorder in Sec. 13, T. 29 S., R. 72 W., ½ mile below the Forks, 9 miles northeast of Fort Garland. Reestablished October 7, 1939, 20 feet upstream from site used during 1936.

Drainage Area—23.3 square miles.

Records Available—May 4 to July 27, 1936, October 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1936-1940; 554 second feet (slope-area measurement), July 27, 1936. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 103 second feet, May 31, 1940. Gage height 1.40 feet.

Accuracy—Records considered good, except for those estimated for October 1-7, 30, 31, 1939.

No diversions above station.

UTE CREEK NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 10, T. 30 S., R. 72 W., at flume 2½ miles north of Fort Garland.

Drainage Area—32 square miles.

Records Available—March 16 to October 8, 1916; May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1916, 1923-40; 353 second feet, August 5, 1936. Gage height 3.05 feet.

Maximum Discharge—Year 1939; 94 second feet, May 3, 1939. Gage height 1.64 feet.

Maximum Discharge—Year 1940; 78 second feet, May 17, 1940. Gage height 1.46 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

CONEJOS RIVER AT PLATORO, COLORADO

Location—Water stage recorder in Sec. 22, T. 36 N., R. 4 E., ½ mile below Platoro.

Drainage Area—44.4 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,230 second feet, May 28, 1938. Gage height 3.17 feet.

Maximum Discharge—Year 1939; 855 second feet, May 19, 1939. Gage height 2.65 feet.

Maximum Discharge—Year 1940; 836 second feet, May 31, 1940. Gage height 2.56 feet.

Accuracy—Records considered excellent, except for ice effect period, and for missing gage heights, October 13-18; November 13-31, 1938; April 1-11; November 16-25, 30, to December 3, 1939; and April 1-4, 1940, which were computed on basis of discharge measurements and comparison with Conejos at Mogote.

No diversions above station.

CONEJOS RIVER NEAR MOGOTE, COLORADO

Location—Water stage recorder in Sec. 34, T. 33 N., R. 7. E., 12 miles west of Antonito at Broyles bridge and 5½ miles northwest of Mogote.

Drainage Area—282 square miles. Altitude, 8,300 feet above mean sea level.

Records Available—September 1, 1899, to March 31, 1900, and April 17, 1903, to October 31, 1905, at a point 1 mile below present station. March 21, 1907, to October 5, 1911, 3 miles above present station; January 1, 1912, to September 30, 1940, at present station.

Maximum discharge observed during period 1899-1900; 1903-40; 6,000 second feet (estimated), October 5, 1911.

Maximum Discharge—Year 1939; 1,680 second feet, May 20, 1939. Gage height 3.74 feet.

Maximum Discharge—Year 1940; 1,650 second feet, May 17, 1940. Gage height 3.72 feet.

Accuracy — Records considered excellent except for those estimated and for ice periods, October 13-22; November 25; December 19-21, 24, 1938, to March 16, 27; to April 13, 1939, computed on basis of 5 discharge measurements and weather records, and those from December 15, 1939, to March 17, 1940, computed on basis of 7 discharge measurements and weather records and are good.

No diversions or regulations above station.

CONEJOS RIVER NEAR LAS SAUSES, COLORADO

Location—Two water stage recorders in Sec. 2, T. 35 N., R. 11 E., 2 miles north of Las Sauses and ½ mile above mouth. Stream enters Rio Grande River through two channels and combined record is published.

Drainage Area—887 square miles. North channel zero of gage is 7,496.02 feet above mean sea level.

Records Available—March 29, 1921, to September 30, 1940.

Maximum daily discharge observed during period 1921-40; 3,650 second feet, May 24, 1932.

Maximum Discharge—Year 1939; 1,120 second feet, May 2, 1939.

Maximum Discharge—Year 1940; 1,106 second feet, May 18, 1940.

Accuracy—Records considered good for 1939, except those for ice effect periods, January 15-18, 28-30; February 2-9, 12-15; March 4-8; and June 17 to July 26, 1939, by comparison of records of two channels, which are fair. Records are excellent for 1940, except those for ice effect, January 14-17, 19-20, 23-24, 1940, which were computed on basis of measurements and comparison of records for two channels.

SAN ANTONIO RIVER AT ORTIZ, COLORADO

Location—Water stage recorder in Sec. 19, T. 32 N., R. 9 E., ½ mile south of Ortiz just across state line and ½ mile above mouth of Los Pinos Creek.

Drainage Area—110 square miles.

Records Available—January 1 to October 31, 1915; May 1, 1919, to October 31, 1920; October 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1915; 1919-20; 1924-40; 1,750 second feet, April 15, 1937. Gage height 5.38 feet.

Maximum Discharge—Year 1939; 324 second feet, April 30, 1939. Gage height 2.48 feet.

Maximum Discharge—Year 1940; 218 second feet, April 21, 1940. Gage height 2.13 feet.

Accuracy—Records considered good, except those estimated, November 10-30, 1939; May 6-8, 17-22, 1940, which are fair. No records November 4, 1938, to March 23, 1939, and December 1, 1939, to March 28, 1940.

Small diversions for irrigation above station.

SAN ANTONIO RIVER AT MOUTH NEAR MANASSA, COLORADO

Location—Water stage recorder in Sec. 21, T. 34 N., R. 10 E., 2½ miles east of Manassa and 1 mile above mouth near highway crossing. Prior to April 23, 1936, at site 200 feet upstream at bridge.

Drainage Area—348 square miles.

Records Available—April 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1923-40; 1,890 second feet, May 5, 1924.

Maximum Discharge—Year 1939; 1,040 second feet, May 1, 1939. Gage height 4.90 feet.

Maximum Discharge—Year 1940; 495 second feet, May 18, 1940. Gage height, 3.49 feet.

Accuracy—Records considered excellent above 5 second feet, except those for ice effect period and period of missing gage heights, December 3-4, 24, 1938, to March 24, 1939; November 22, 1939, to March 14, 1940, which were computed on basis of 5 discharge measurements in 1939 and 6 in 1940, and weather records, and are fair.

Diversions for irrigation above station.

LOS PINOS RIVER NEAR ORTIZ, COLORADO

Location—Water stage recorder in Sec. 34, T. 32 N., R. 8 E., 2 miles southwest of Ortiz and 1 mile south state line.

Drainage Area—167 square miles. Altitude, 8,100 feet above mean sea level.

Records Available—January 1, 1914, to November 30, 1920; October 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1914-20; 1924-40; 2,770 second feet, May 9, 1937. Gage height 5.30 feet.

Maximum Discharge—Year 1939; 1,360 second feet, April 30, 1939. Gage height 4.05 feet.

Maximum Discharge—Year 1940; 887 second feet, April 26, 1940. Gage height 3.40 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

CULEBRA RIVER AT SAN LUIS, COLORADO

Location—Water stage recorder in Sec. 35, T. 3 N., R. 72 W. (Beaubien Grant Survey), 1 mile southeast of San Luis. Twelve foot Parshall flume since May 1, 1931.

Drainage Area—220 square miles.

Records Available—May 1, 1909, to September 2, 1919; April 1, 1927, to September 30, 1940.

Maximum daily discharge observed during period 1909-19; 1927-40; 470 second feet, June 26, 1915.

Maximum Discharge—Year 1939; 296 second feet, July 13, 1939. Gage height 3.18 feet.

Maximum Discharge—Year 1940; 310 second feet, June 8, 1940. Gage height 3.30 feet.

Accuracy—Records considered excellent except those estimated for February 1-26, and December 19-31, 1939.

Diversions for irrigation and storage above station. Flow regulated by Sanchez Reservoir; capacity 103,100 acre-feet.

CULEBRA RIVER BELOW SAN LUIS, COLORADO

Location—Water stage recorder in Sec. 27, T. 3 N., R. 72 W. (Beaubien Grant Survey), 500 feet below bridge on state highway No. 159, 600 feet below mouth of Rito Seco, and ¼ mile from San Luis.

Drainage Area—255 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 512 second feet, July 15, 1939. Gage height 3.29 feet.

Maximum Discharge—Year 1939; 512 second feet, July 15, 1939. Gage height 3.29 feet.

Maximum Discharge—Year 1940; 380 second feet, June 8, 1940. Gage height 2.90 feet.

Accuracy—Records considered good, except for periods of missing gage heights, October 1, 16, to November 27, 1939, which were computed on basis of 2 discharge measurements and comparison with record of Culebra River above San Luis, and are good.

Diversions for storage and irrigation above station.

LA GARITA CREEK NEAR LA GARITA, COLORADO

Location—Water stage recorder in Sec. 10, T. 41 N., R. 6 E., at Curby ranch, 4 miles southwest of La Garita post office. Gage moved ¼ mile upstream November 14, 1935, and set to independent datum. Records comparable for both sides.

Drainage Area—61 square miles.

Records Available—April 1, 1919, to September 30, 1940.

Maximum discharge observed during period 1919-40; 395 second feet, July 14, 1938. Gage height 2.07 feet.

Maximum Discharge—Year 1939; 126 second feet, April 22, 1939. Gage height 1.35 feet.

Maximum Discharge—Year 1940; 68 second feet, July 21, 1940. Gage height 1.46 feet.

Accuracy—Records considered good except for those estimated October 5-31, 1938, and August 27-28, 31; September 1, 1940, computed on basis of 1 discharge measurement, weather records, and are fair. No records during winter.

Diversions for irrigation above station.

CARNERO CREEK NEAR LA GARITA, COLORADO

Location—Water stage recorder in Sec. 26, T. 42 N., R. 6 E., 3 miles northwest of La Garita at O'Dell ranch.

Drainage Area—117 square miles.

Records Available—April 1, 1919, to September 30, 1940.

Maximum discharge observed during period 1919-40; 500 second feet, April 14, 1924.

Maximum Discharge—Year 1939; 102 second feet, April 3, 1939. Gage height 1.17 feet.

Maximum Discharge—Year 1940; 31 second feet, March 28, 1940. Gage height 0.72 feet.

Accuracy—Records considered good except for records estimated, October 12-31, 1938; July 7-12, 17-21, 25-27; August 2-6, 10-19, 1940, which are fair. No records during winter.

Diversions for irrigation above station.

SAGUACHE CREEK NEAR SAGUACHE, COLORADO

Location—Water stage recorder in Sec. 11, T. 45 N., R. 6 E., at Ward's ranch, 10 miles west of Saguache.

Drainage Area—595 square miles.

Records Available—August 7, 1910, to September 23, 1912; June 1, 1914, to September 30, 1940.

Maximum discharge observed during period 1910-12, 1914-40; 746 second feet, June 15, 1921. Gage height 3.45 feet, former datum.

Maximum Discharge—Year 1939; 269 second feet, April 4, 1939. Gage height 1.55 feet.

Maximum Discharge—Year 1940; 134 second feet, May 18, 1940. Gage height 1.03 feet.

Accuracy—Records considered good except for those estimated for September 5-12, 1939; June 10-15, 24, 25; August 16, 17; September 23-24, 1940, which are fair. No records during winter.

Diversions for irrigation above station.

KERBER CREEK AT ASHLEY RANCH NEAR VILLA GROVE, COLORADO

Location—Water stage recorder in Sec. 7, T. 46 N., R. 8 E., at Ashley ranch, 10 miles west of Villa Grove.

Drainage Area—38 square miles.

Records Available—June, 1923, to September, 1926; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 306 second feet (slope-area method), July 30, 1936.

Maximum Discharge—Year 1939; 90 second feet, May 14, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 49 second feet, August 22, 1940. Gage height 2.51 feet.

Accuracy—Records considered good, except those for October 28-30, 1939; April 1-4; June 3-5, which were estimated and are good.

No diversions above station.

NORTH CRESTONE CREEK NEAR CRESTONE, COLORADO

Location—Water stage recorder in Sec. 5, T. 43 N., R. 12 E., 3 miles above Junction with South Crestone Creek, and 1½ miles above Crestone.

Drainage Area—10.7 square miles.

Records Available—1915; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 735 second feet by slope-area determination, August 6, 1936. Gage height, 4.33 feet.

Maximum Discharge—Year 1939; 78 second feet, May 19, 1939. Gage height 1.60 feet.

Maximum Discharge—Year 1940; 63 second feet, May 31, 1940. Gage height .45 feet.

Accuracy—Records considered good.

No diversions above station.

Discharge of Rio Grande River at Thirty Mile Bridge Near Creede, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	107	14	....	....	....	....	19	385	1100	567	109	57
2....	107	14	....	....	....	....	19	430	1050	594	103	52
3....	106	....	....	....	....	....	19	450	1010	600	95	45
4....	118	....	....	....	....	....	19	488	1080	634	89	42
5....	125	....	....	....	....	....	19	548	1130	641	90	50
6....	155	....	....	....	....	....	19	676	1100	628	104	123
7....	215	....	....	....	....	....	19	718	1080	621	135	111
8....	52	....	....	....	....	....	19	607	1040	587	98	167
9....	7.8	....	....	....	....	....	19	554	978	548	85	135
10....	7.8	....	....	....	....	....	19	607	918	542	80	120
11....	7.2	....	....	....	....	....	19	776	918	542	78	177
12....	7.5	....	....	....	....	....	19	845	927	516	71	177
13....	7.5	....	....	....	....	....	19	725	927	516	66	185
14....	7.5	....	....	....	....	....	19	587	1040	516	65	160
15....	7.8	....	....	....	....	....	19	548	1030	548	62	142
16....	8.7	....	....	....	....	....	19	522	952	529	60	123
17....	9.0	....	....	....	....	....	19	600	918	554	54	118
18....	9.0	....	....	....	....	....	42	648	860	587	54	109
19....	9.8	....	....	....	....	....	150	725	776	600	51	104
20....	9.4	....	....	....	....	....	185	885	704	607	48	106
21....	10	....	....	....	....	....	232	978	621	567	51	98
22....	10	....	....	....	....	....	167	1020	567	385	54	96
23....	11	....	....	....	....	....	229	1040	574	101	49	92
24....	11	....	....	....	....	....	332	978	574	89	61	87
25....	12	....	....	....	....	....	381	821	607	89	70	86
26....	13	....	....	....	....	....	393	761	628	92	65	92
27....	13	....	....	....	....	....	393	798	587	138	60	107
28....	13	....	....	....	....	....	393	893	548	140	74	90
29....	13	....	....	....	....	....	336	1010	529	162	83	85
30....	13	....	....	....	....	....	360	1120	548	135	76	79
31....	14	....	....	....	....	....	....	1100	....	122	63	....
Total	1217.0	420	465	496	476	558	3916	22843	25321	13497	2303	3215
Mean.	39.3	14	15	16	17	18	131	737	844	435	74.3	107
Max..	215	....	....	....	....	....	393	1120	1130	641	135	185
Min...	7.2	....	....	....	....	....	19	385	529	89	48	42
Acre-ft.	2410	833	922	984	944	1110	7770	45310	50220	26770	4570	6380

Total run-off for water year 1938-39=148,220 acre-feet.

Discharge of Rio Grande River at Thirty Mile Bridge, Near Creede, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	78	54	3	3	3	3	58	151	577	128	47	40
2....	74	53	3	3	3	3	58	146	557	111	47	36
3....	70	50	3	3	3	3	58	232	532	100	52	40
4....	66	48	3	3	3	3	58	356	458	94	41	38
5....	60	51	3	3	3	3	58	453	406	91	38	35
6....	62	53	3	3	3	3	58	490	376	86	43	33
7....	61	36	3	3	3	3	57	570	348	81	43	34
8....	70	37	3	3	3	3	57	624	325	81	37	34
9....	65	38	3	3	3	3	57	638	285	78	34	34
10....	54	32	3	3	3	3	57	787	261	74	33	32
11....	61	34	3	3	3	3	57	869	248	73	32	30
12....	61	38	3	3	3	3	57	1030	258	66	32	30
13....	60	42	3	3	3	3	58	1060	261	66	31	32
14....	57	32	3	3	3	3	58	1130	264	74	29	30
15....	56	34	3	3	3	3	75	1170	261	67	29	29
16....	53	43	3	3	3	3	102	1200	229	63	32	28
17....	53	48	3	3	3	3	111	1310	242	66	32	33
18....	49	28	3	3	3	3	111	1140	216	64	34	174
19....	51	3	3	3	3	3	111	570	202	59	43	274
20....	46	3	3	3	3	3	121	410	190	57	52	185
21....	43	3	3	3	3	14	220	372	196	62	43	130
22....	46	3	3	3	3	14	364	356	196	57	41	154
23....	43	3	3	3	3	14	401	401	177	59	41	128
24....	42	3	3	3	3	14	428	468	161	58	51	114
25....	48	3	3	3	3	14	437	538	146	64	57	111
26....	44	3	3	3	3	27	437	544	142	67	55	112
27....	32	3	3	3	3	52	432	557	130	64	48	109
28....	46	3	3	3	3	62	376	564	123	62	41	109
29....	45	3	3	3	3	62	236	557	118	63	39	172
30....	57	3	3	3	....	60	177	551	164	55	36	216
31....	52	3	3	3	....	59	....	564	....	57	38	....
Total	1705	787	93	93	87	452	4945	19808	8049	2247	1251	2556
Mean.	55.0	26.2	3	3	3	14.6	165	639	268	72.5	40.4	85.2
Max..	78	54	....	....	....	62	437	1310	577	128	57	274
Min...	32	3	....	....	....	3	57	146	118	55	29	28
Acre-ft.	3380	1560	184	184	173	897	9810	39290	15960	4460	2480	5070

Total run-off for water year 1939-40=83,450 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River at Wason Below Creede, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	309	270	189	120	115	120	236	1120	2110	1050	386	248
2....	304	270	189	120	115	120	257	1080	1990	1060	369	236
3....	340	244	175	120	115	120	275	1020	1970	1040	335	217
4....	340	248	179	120	115	120	270	1130	2170	1040	293	199
5....	369	266	175	120	115	120	244	1420	2220	1030	288	189
6....	500	221	169	120	115	120	253	1520	2040	978	324	236
7....	738	155	182	120	115	120	214	1580	1870	961	423	352
8....	818	210	179	120	115	125	229	1560	1870	987	346	369
9....	486	279	172	120	115	125	262	1520	1840	1020	309	435
10....	417	248	179	120	115	126	236	1630	1770	1010	279	369
11....	386	253	166	115	115	114	199	1580	1730	1020	266	441
12....	352	217	169	115	115	134	221	1800	1680	1060	236	493
13....	352	166	155	115	115	131	233	1720	1670	1130	225	568
14....	363	206	134	115	115	131	244	1460	1730	1160	217	603
15....	404	210	155	115	115	139	217	1360	1800	1120	210	582
16....	526	225	166	115	118	150	196	1350	1630	1040	210	500
17....	582	229	158	115	118	158	166	1300	1540	996	206	448
18....	526	179	144	115	118	164	182	1430	1470	978	203	417
19....	486	225	169	115	118	186	304	1690	1340	943	210	392
20....	454	210	158	115	118	229	493	2000	1260	908	210	381
21....	429	199	152	115	118	304	582	2100	1220	859	214	357
22....	404	186	136	115	118	346	678	2250	1150	786	229	335
23....	381	147	144	115	118	352	526	2170	1150	423	217	319
24....	357	152	121	115	118	386	746	1970	1150	319	221	298
25....	330	203	125	115	118	375	810	1700	1130	304	233	284
26....	319	186	140	115	120	314	851	1500	1090	275	233	288
27....	309	199	135	115	120	266	859	1580	1050	314	217	335
28....	298	186	135	115	120	221	1010	1670	1030	381	253	309
29....	279	175	134	115	....	199	1070	1860	1010	473	298	284
30....	275	206	135	115	....	192	892	2040	1030	417	293	275
31....	270	....	140	115	....	206	....	2100	....	404	266	....
Total	12703	6370	4859	3615	3265	5913	12955	50210	46710	25486	8219	10759
Mean.	410	212	157	117	117	191	432	1620	1557	822	265	359
Max..	818	279	189	....	....	386	1070	2250	2220	1160	423	603
Min...	270	147	121	....	....	114	166	1020	1010	275	203	189
Acre-ft.	25200	12630	9640	7170	6480	11730	25700	99590	92650	50550	16300	21340

Total run-off for water year 1938-39==379,000 acre-feet.

Discharge of Rio Grande River at Wason, Below Creede, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	262	210	89	72	76	70	203	357	1090	352	172	155
2....	218	203	83	72	78	73	179	369	1060	279	164	152
3....	240	196	77	72	80	73	169	540	1010	253	161	166
4....	229	189	85	68	78	72	169	900	926	233	155	166
5....	221	186	83	64	76	80	182	1070	851	229	147	150
6....	214	186	77	60	78	75	172	1120	786	233	155	139
7....	210	169	87	64	76	77	169	1200	716	214	166	136
8....	225	161	78	70	76	86	169	1240	663	214	152	134
9....	233	179	82	72	77	84	166	1230	603	210	141	131
10....	217	161	87	72	78	82	169	1470	568	199	139	134
11....	214	150	80	72	75	80	161	1610	519	192	141	134
12....	214	158	80	72	75	85	166	1620	526	186	136	128
13....	214	158	71	78	65	82	186	1630	547	179	128	128
14....	210	152	75	70	65	87	225	1790	596	236	123	126
15....	199	136	75	71	72	91	248	1860	582	244	121	128
16....	196	128	75	73	78	92	248	1800	575	233	126	123
17....	192	126	72	72	82	100	253	1820	568	221	126	123
18....	189	123	72	70	79	100	253	1700	526	203	123	253
19....	186	114	72	70	69	105	293	1180	467	192	147	670
20....	175	105	68	68	75	114	363	926	460	182	175	526
21....	166	114	60	68	72	128	480	842	429	192	179	381
22....	166	98	68	72	65	164	596	810	429	186	172	352
23....	164	95	68	80	62	186	754	883	404	186	166	363
24....	164	95	68	82	66	192	802	978	363	179	179	314
25....	164	96	68	84	69	203	851	996	340	186	206	284
26....	196	98	62	86	60	199	826	1060	304	192	203	279
27....	152	96	65	84	69	210	851	1090	293	214	186	270
28....	152	92	72	80	68	199	693	1100	270	221	166	253
29....	179	89	70	78	69	186	561	1090	270	210	161	335
30....	169	85	61	80	....	182	410	1070	335	199	155	493
31....	210	....	60	76	....	199	....	1090	....	182	152	....
Total	6170	4148	2290	2272	2108	3756	10967	36441	17076	6631	4823	7126
Mean.	199	138	73.9	73.3	72.7	121	366	1176	569	214	156	238
Max..	262	210	89	86	82	210	851	1860	1090	352	206	670
Min...	152	85	60	60	60	70	161	357	270	179	121	123
Ac.-ft.	12240	8230	4540	4510	4180	7450	21750	72280	33870	13150	9570	14130

Total run-off for water year 1939-40==205,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Del Norte, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	478	510	260	220	220	265	638	1990	2960	1210	471	287
2....	471	516	240	230	250	250	660	2090	2870	1200	453	274
3....	490	471	240	250	280	260	696	1970	2770	1160	440	261
4....	510	471	220	220	270	275	726	1940	3020	1150	378	240
5....	510	510	260	210	260	250	624	2310	3230	1170	352	232
6....	590	465	296	240	260	240	653	2720	2980	1080	362	253
7....	928	327	300	230	260	250	563	2410	2610	1020	459	367
8....	1210	352	313	230	250	260	583	2530	2530	1030	447	406
9....	946	497	296	230	250	270	689	2500	2460	1060	362	510
10....	742	478	309	210	240	270	646	2790	2380	1000	332	459
11....	689	453	318	220	260	260	543	2740	2310	1020	313	478
12....	646	411	300	215	260	275	556	2910	2260	1020	296	576
13....	624	352	287	220	255	300	604	2720	2170	1070	274	597
14....	646	352	244	230	254	340	674	2340	2170	1110	270	689
15....	674	389	240	240	265	360	583	2190	2280	1110	257	726
16....	846	406	287	250	260	380	516	2160	2040	1070	244	631
17....	993	411	300	260	240	420	453	1950	1910	1010	240	556
18....	891	352	257	240	250	460	453	2140	1800	984	232	510
19....	829	378	240	240	260	500	516	2530	1660	955	218	459
20....	772	383	313	230	250	550	734	3000	1510	928	211	428
21....	734	378	274	250	245	620	918	3140	1470	872	218	417
22....	704	357	244	270	240	661	1160	3270	1350	821	229	389
23....	674	287	225	260	250	880	1070	3210	1340	667	232	372
24....	624	229	185	260	255	800	1120	3170	1370	428	222	357
25....	610	230	195	250	265	730	1190	2700	1310	357	229	342
26....	583	230	230	253	275	720	1250	2360	1270	337	261	337
27....	570	240	220	260	265	720	1280	2410	1210	342	265	367
28....	549	240	220	270	250	680	1510	2480	1190	406	278	389
29....	523	240	230	265	....	600	1920	2620	1150	510	342	342
30....	523	240	230	250	....	550	1560	2850	1160	536	352	337
31....	510	....	250	240	....	680	....	2940	....	523	318	....
Total	21089	11155	8023	7443	7139	14076	25088	79080	60740	27156	9557	12588
Mean.	680	372	259	240	255	454	836	2551	2025	876	308	420
Max..	1210	516	318	270	280	880	1920	3270	3230	1210	471	726
Min...	471	229	220	210	220	240	453	1940	1150	337	211	232
Acre-ft.	41830	22130	15910	14760	14160	27920	49760	156900	120500	53860	18960	24970

Total run-off for water year 1938-39=561,700 acre-feet.

Discharge of Rio Grande River Near Del Norte, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	318	300	159	112	135	165	342	570	1660	453	225	211
2....	313	300	152	112	140	160	318	556	1590	378	207	211
3....	304	296	146	116	140	160	300	734	1480	322	207	218
4....	291	278	146	115	140	155	291	1170	1380	304	197	222
5....	282	278	152	113	140	150	309	1440	1290	296	188	211
6....	270	282	146	112	140	155	309	1550	1220	291	222	191
7....	270	274	141	114	140	150	287	1620	1120	278	229	185
8....	282	244	144	121	143	155	287	1740	1050	270	200	188
9....	304	257	148	128	143	175	282	1630	900	265	182	182
10....	296	261	157	131	143	200	278	1840	797	261	166	176
11....	278	218	150	131	143	214	265	2120	749	253	166	179
12....	278	222	150	136	144	188	257	2120	704	249	166	182
13....	274	232	130	130	146	180	274	2220	726	236	159	182
14....	265	229	130	132	146	175	327	2410	772	244	155	185
15....	261	211	130	137	152	191	383	2570	772	296	148	188
16....	257	191	129	139	155	200	394	2570	772	296	148	182
17....	249	185	136	143	150	211	406	2570	749	274	148	188
18....	244	185	128	143	148	211	406	2590	711	249	157	225
19....	244	185	120	143	160	214	459	1990	638	229	173	653
20....	244	163	102	139	162	218	570	1530	610	222	197	689
21....	232	173	102	139	160	249	719	1330	576	229	278	530
22....	225	182	102	135	163	274	805	1280	576	229	225	447
23....	225	168	102	132	166	318	993	1280	563	218	218	459
24....	218	166	105	134	168	337	1100	1390	503	214	236	428
25....	225	166	110	141	166	352	1190	1420	459	222	287	389
26....	291	170	109	135	175	378	1200	1490	428	240	278	372
27....	270	194	106	135	175	362	1270	1590	400	300	270	378
28....	218	197	103	135	175	347	1020	1650	367	322	236	352
29....	257	168	108	135	170	313	854	1620	347	278	222	367
30....	278	168	110	135	....	304	674	1600	417	261	229	543
31....	282	....	111	135	....	318	....	1650	....	249	218	....
Total	8245	6543	3964	4038	4428	7179	16569	51840	24326	8428	6337	9113
Mean.	266	218	128	130	153	232	552	1672	811	272	204	304
Max..	318	300	159	143	175	378	1270	2590	1660	453	287	689
Min...	218	163	102	112	135	150	257	556	347	214	148	176
Ac.-ft.	16350	12980	7860	8010	8780	14240	32860	102820	48250	16720	12570	18080

Total run-off for water year 1939-40=299,520 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Monte Vista, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	188	235	270	225	....	210	373	296	855	106	93	80
2....	182	270	285	225	....	210	413	313	814	88	86	69
3....	175	270	270	225	....	210	423	235	749	78	93	71
4....	175	262	270	225	....	210	434	292	864	61	99	69
5....	206	277	250	225	....	210	335	537	958	61	97	69
6....	266	326	290	230	....	210	289	640	805	71	108	74
7....	483	344	330	230	....	210	235	525	687	71	116	82
8....	976	309	349	230	....	210	188	674	741	97	120	80
9....	967	368	349	230	....	210	220	543	694	143	102	88
10....	680	512	331	230	....	210	258	626	640	143	95	84
11....	600	483	331	220	....	220	199	556	667	97	95	73
12....	531	450	322	220	....	220	166	626	687	88	84	78
13....	466	397	309	220	....	220	162	741	613	93	73	63
14....	472	373	258	220	....	220	151	772	620	102	71	84
15....	489	423	235	220	....	220	133	855	680	111	78	97
16....	613	444	335	220	....	520	108	814	633	125	76	78
17....	847	450	335	220	....	520	58	702	525	113	84	28
18....	797	402	335	220	....	520	41	702	428	97	82	23
19....	687	392	270	220	....	520	47	789	344	82	78	40
20....	633	434	260	220	....	520	36	889	251	91	80	44
21....	581	418	300	220	....	958	78	838	195	99	86	63
22....	550	382	270	220	....	958	199	914	151	99	82	52
23....	512	344	250	220	....	855	232	985	106	99	73	31
24....	472	292	230	220	....	764	182	830	116	65	69	21
25....	428	263	225	220	....	756	266	889	86	51	71	15
26....	382	260	225	215	....	680	296	814	97	69	69	15
27....	335	260	225	215	....	640	281	780	95	93	69	15
28....	300	270	225	215	....	512	296	814	97	113	73	19
29....	251	270	225	215	....	418	500	855	95	125	82	26
30....	213	270	226	215	....	358	318	847	93	116	84	24
31....	220	....	225	215	....	358	....	838	....	102	88	....
Total	14677	10450	8610	6865	5880	13057	6917	21531	14386	2949	2656	1655
Mean.	473	348	278	221	210	421	231	695	480	95.1	85.7	55.2
Max..	976	512	349	....	....	958	500	985	958	143	120	97
Min...	175	235	....	....	....	....	36	235	86	51	69	15
Acre-ft.	29110	20730	17080	13620	11660	25900	13720	42710	28530	5850	5270	3280

Total run-off for water year 1938-39=217,460 acre-feet.

Discharge of Rio Grande River Near Monte Vista, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	19	18	172	110	135	175	19	118	640	116	91	80
2....	18	19	169	110	135	180	17	123	581	91	82	76
3....	17	19	166	115	135	175	15	159	568	86	71	74
4....	16	18	172	115	140	175	11	251	543	84	67	76
5....	16	15	166	115	140	195	14	494	466	88	51	71
6....	17	15	166	115	140	206	12	581	434	91	38	61
7....	23	14	156	115	140	169	12	626	335	91	60	65
8....	30	10	159	120	140	143	10	741	262	84	73	69
9....	32	10	151	125	140	133	10	710	182	80	60	67
10....	41	12	102	130	140	116	9	822	95	93	42	60
11....	41	10	93	130	140	106	8	855	102	91	35	61
12....	35	12	97	130	145	97	10	710	71	86	31	69
13....	34	12	102	135	145	104	30	680	95	80	28	67
14....	36	12	111	140	145	120	35	702	143	78	19	71
15....	36	17	93	140	150	118	34	710	143	71	26	76
16....	40	20	130	140	155	52	32	640	125	56	35	74
17....	35	47	135	145	150	30	46	772	123	52	32	67
18....	26	58	135	145	150	28	42	940	108	69	30	76
19....	23	123	125	145	155	17	41	633	97	88	38	97
20....	22	148	110	140	160	15	54	392	106	80	41	93
21....	22	148	100	140	160	14	84	444	108	78	49	54
22....	22	175	100	140	160	23	93	543	106	80	44	80
23....	19	175	100	140	165	21	125	512	104	78	51	97
24....	17	162	100	140	165	24	285	478	93	73	69	86
25....	15	162	105	135	165	24	373	466	97	63	78	80
26....	13	153	110	135	165	20	408	519	108	56	71	80
27....	14	166	110	135	170	15	402	512	116	82	73	86
28....	15	185	105	135	170	14	335	478	108	97	73	80
29....	11	185	105	135	170	12	220	472	104	91	71	82
30....	12	169	110	135	....	12	175	562	116	88	80	111
31....	15	....	110	135	....	12	....	620	....	104	76	....
Total	732	2289	3865	4065	4370	2545	2961	17265	6279	2545	1685	2286
Mean.	23.6	76.3	125	131	151	82.1	98.7	557	209	82.1	54.4	76.2
Max..	41	185	172	145	170	206	408	940	640	116	91	111
Min...	11	10	93	110	135	12	8	118	71	52	19	54
Acre-ft.	1450	4540	7670	8060	8670	5050	5870	34240	12450	5050	3340	4530

Total run-off for water year 1939-40=100,920 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River at Alamosa, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	31	177	470	230	215	230	395	55	61	45	24	24
2....	31	175	490	230	215	230	413	50	62	46	25	23
3....	30	191	500	230	215	230	466	46	62	47	25	23
4....	32	213	420	230	215	230	481	44	56	47	26	20
5....	39	221	440	230	215	230	494	46	98	47	26	18
6....	38	242	450	240	215	240	392	57	99	46	26	19
7....	35	264	450	240	215	240	342	84	54	46	29	18
8....	93	276	450	240	215	240	280	57	48	45	32	19
9....	575	318	446	240	215	240	242	67	54	45	34	20
10....	640	477	433	240	215	240	260	55	60	47	32	20
11....	494	534	436	235	215	340	280	55	50	52	29	22
12....	460	511	427	235	215	340	198	50	49	48	30	22
13....	414	470	405	235	215	340	166	52	58	44	29	21
14....	357	424	348	235	215	340	137	56	49	41	32	21
15....	351	460	433	235	215	340	112	50	45	44	40	23
16....	375	528	430	215	220	642	99	53	44	43	34	25
17....	500	514	420	215	220	635	89	44	43	42	33	20
18....	686	514	400	215	220	569	78	42	43	40	32	18
19....	668	490	350	215	220	505	68	40	42	41	32	16
20....	604	524	340	215	220	642	66	49	39	40	32	16
21....	558	545	330	210	220	692	65	57	37	40	32	16
22....	524	514	300	210	220	812	63	60	36	40	32	16
23....	494	460	270	210	220	896	61	85	36	39	30	16
24....	456	390	250	210	220	896	62	58	40	37	29	15
25....	414	362	230	210	220	848	57	56	42	31	27	15
26....	375	390	230	215	220	824	55	74	41	21	27	15
27....	305	440	230	215	220	760	52	72	39	20	28	13
28....	269	470	230	215	220	699	47	79	40	21	28	13
29....	235	450	230	215	....	562	48	95	41	22	27	15
30....	196	460	230	215	....	468	60	102	40	21	26	19
31....	189	....	232	215	....	398	....	73	....	22	26	....
Total	10468	12004	11300	6935	6085	14898	5628	1863	1508	1213	914	561
Mean.	338	400	365	224	217	481	188	60.1	50.3	39.1	29.5	18.7
Max..	686	545	500	....	....	896	494	102	99	52	40	25
Min...	30	175	....	....	....	....	47	40	36	20	24	13
Acre-ft.	20760	23810	22410	13760	12070	29550	11160	3700	2990	2410	1810	1110

Total run-off for water year 1938-39=145,540 acre-feet.

Discharge of Rio Grande River at Alamosa, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	4.6	78	125	153	218	29	46	36	41	33	16
2....	14	5.2	75	128	157	230	23	46	43	43	34	16
3....	14	7.0	73	130	160	250	22	41	42	43	27	16
4....	13	5.8	71	135	164	280	21	48	36	42	19	16
5....	13	5.8	75	138	158	300	20	45	35	41	16	16
6....	13	4.6	84	138	152	300	19	42	35	40	16	16
7....	13	4.6	87	135	150	287	18	42	40	40	16	16
8....	15	4.0	79	130	152	263	17	36	42	39	15	16
9....	14	4.0	79	130	153	226	16	39	43	39	15	16
10....	14	4.0	79	132	153	196	16	45	39	39	15	16
11....	14	4.6	60	132	150	181	15	85	41	38	13	16
12....	14	5.8	46	134	145	169	14	63	42	39	12	17
13....	14	5.8	49	140	140	120	15	41	41	39	13	18
14....	13	5.8	71	135	140	130	15	36	41	38	10	18
15....	13	5.8	58	130	145	158	13	44	41	36	10	18
16....	13	5.8	70	128	155	135	13	44	43	38	10	18
17....	13	6.4	88	128	159	100	14	22	41	39	10	20
18....	13	6.4	98	130	160	82	13	42	41	39	10	24
19....	13	7.0	102	130	161	68	19	127	41	38	8.9	24
20....	12	7.0	109	130	163	61	22	83	41	39	8.1	24
21....	12	7.0	103	130	164	55	23	61	40	39	8.9	26
22....	12	7.8	102	130	165	53	34	63	40	39	21	24
23....	9.4	8.6	110	125	168	50	50	82	42	39	18	20
24....	5.8	19	110	128	170	48	39	108	41	38	17	20
25....	5.8	37	116	132	172	45	46	96	39	36	17	19
26....	5.2	62	120	135	176	45	42	80	39	35	16	18
27....	5.2	85	110	138	182	44	50	72	41	35	16	18
28....	5.2	84	110	141	200	42	44	63	40	34	16	18
29....	5.2	78	110	145	214	38	42	39	41	33	16	18
30....	5.2	78	120	148	....	36	40	34	41	38	16	19
31....	4.6	....	125	150	....	35	....	33	....	35	16	....
Total	346.6	576.4	2767	4140	4681	4245	764	1748	1208	1191	488.9	557
Mean.	11.2	19.2	89.3	134	161	137	25.5	56.4	40.3	38.4	15.8	18.6
Max..	16	85	125	150	214	300	50	127	43	43	34	26
Min...	4.6	4.0	46	125	140	35	13	22	35	33	8.1	16
Acre-ft.	687	1140	5490	8210	9280	8420	1520	3470	2400	2360	970	1100

Total run-off for water year 1939-40=45,050 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Above Mouth of Trinchera Creek Near Las Sauses, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	131	330	524	358	260	260	745	261	88	12	5.2	2.7
2....	127	321	553	358	255	260	731	279	86	10	4.4	2.7
3....	124	321	624	358	255	265	749	261	89	9.0	4.4	2.7
4....	120	342	542	368	260	270	791	225	86	8.6	3.8	16
5....	113	358	605	364	255	270	818	210	93	7.6	3.8	47
6....	115	371	612	380	250	260	795	206	68	6.9	4.4	38
7....	129	419	593	368	255	265	722	232	56	7.2	6.2	40
8....	211	438	597	348	260	265	637	271	66	6.9	5.5	35
9....	506	452	608	339	265	270	580	220	40	5.8	5.2	32
10....	816	499	605	377	260	275	557	208	40	5.2	5.2	30
11....	792	578	620	390	255	280	564	180	36	4.4	4.8	32
12....	684	612	628	384	255	290	527	184	31	4.1	4.4	34
13....	640	620	586	333	255	340	452	165	31	4.1	4.8	76
14....	567	553	455	276	260	370	427	167	30	3.8	4.4	43
15....	535	616	384	294	265	410	427	196	29	4.1	4.4	42
16....	528	601	403	290	260	440	424	186	35	3.8	4.4	43
17....	556	620	475	280	255	550	395	174	31	3.4	4.1	45
18....	668	616	528	280	260	680	374	165	28	2.7	3.8	38
19....	772	620	438	276	255	800	305	144	32	2.7	4.8	34
20....	736	608	432	270	255	1000	268	112	31	2.7	5.2	30
21....	708	628	469	270	255	960	248	112	34	2.4	5.8	27
22....	676	664	496	270	250	1060	210	120	28	2.0	4.4	26
23....	652	640	422	270	255	1120	215	116	27	2.4	3.0	26
24....	624	416	358	270	260	1170	255	116	27	2.0	2.7	28
25....	593	371	336	270	255	1180	279	112	24	3.0	2.0	27
26....	560	409	333	270	260	1160	253	132	20	3.8	2.4	28
27....	528	469	352	270	265	1140	248	116	18	4.4	2.4	28
28....	462	538	355	270	266	1090	235	109	17	2.4	2.7	25
29....	422	513	364	270	....	1020	203	107	14	2.7	2.7	25
30....	380	517	368	270	....	910	210	96	12	3.8	2.4	32
31....	342	....	371	270	....	804	....	96	....	5.2	2.4	....
Total	14817	15060	15036	9661	7216	18934	13644	5278	1247	149.1	126.1	935.1
Mean.	478	502	485	312	258	611	455	170	41.6	4.81	4.07	31.2
Max..	816	664	628	390	266	1180	818	279	93	12	6.2	76
Min...	113	321	333	270	250	260	203	96	12	2.0	2.0	2.7
Acre-ft.	29390	29870	29820	19160	14310	37560	27060	10470	2470	296	250	1850

Total run-off for water year 1938-39=202,510 acre-feet.

Discharge of Rio Grande River Above Mouth of Trinchera Creek Near Las Sauses, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	36	25	116	160	175	260	64	21	43	0.8	1.0	2.0
2....	30	26	114	160	178	260	60	18	42	0.6	0.9	2.0
3....	29	24	112	160	178	265	56	17	39	0.5	0.9	1.5
4....	26	26	112	160	180	300	50	16	42	0.4	0.9	1.5
5....	26	27	115	155	180	340	47	15	42	0.6	0.9	0.9
6....	26	27	118	150	185	345	47	13	42	2.5	1.0	0.9
7....	26	26	120	148	185	335	45	11	39	2.0	1.0	0.9
8....	31	27	122	145	185	330	42	13	35	1.0	0.9	0.8
9....	32	30	124	145	185	330	41	11	34	1.0	0.9	0.8
10....	29	32	126	150	185	315	39	11	31	0.9	0.9	0.7
11....	29	32	128	155	180	305	38	11	28	0.9	0.9	0.7
12....	28	32	107	155	175	270	38	13	26	0.9	0.9	0.7
13....	27	31	110	155	175	250	36	16	24	1.5	0.9	0.7
14....	28	30	120	148	178	230	36	18	21	4.5	0.9	0.7
15....	29	34	130	148	180	232	34	42	18	1.5	0.9	2.0
16....	28	37	128	145	180	246	31	25	16	1.5	0.9	0.8
17....	28	38	126	148	180	206	27	23	15	1.0	0.9	0.9
18....	29	41	124	148	180	176	24	43	13	1.0	0.9	2.5
19....	29	48	124	150	185	156	22	39	9.6	1.5	0.9	3.0
20....	29	54	122	150	180	140	21	32	8.4	2.5	0.9	0.8
21....	29	60	120	150	180	135	21	32	7.8	2.5	1.0	0.7
22....	29	64	120	155	185	127	21	31	6.0	1.5	1.0	0.7
23....	29	83	120	160	190	111	23	30	5.0	1.5	1.0	0.7
24....	29	75	120	165	190	106	24	33	4.5	1.5	1.0	0.8
25....	26	86	124	160	192	99	23	36	3.0	1.5	2.0	16
26....	25	136	130	160	205	94	21	41	2.5	1.5	2.0	6.6
27....	26	132	140	160	230	91	18	39	2.0	1.5	18	3.5
28....	26	132	140	160	240	88	21	38	1.0	1.5	4.0	2.0
29....	26	111	155	165	245	83	21	49	1.5	1.5	1.0	2.0
30....	26	107	162	165	....	76	22	57	1.5	1.5	0.9	6.6
31....	26	....	162	170	....	70	....	50	....	1.0	2.0	....
Total	872	1633	3891	4805	5466	6370	1013	844	602.8	44.1	52.2	64.4
Mean.	28.1	54.4	126	155	188	205	33.8	27.2	20.1	1.42	1.68	2.15
Max..	36	136	162	170	245	345	64	57	43	4.5	18	16
Min...	25	24	107	145	175	70	18	11	1.0	0.4	0.9	0.7
Acre-ft.	1730	3240	7720	9530	10840	12630	2010	1670	1200	87	104	128

Total run-off for water year 1939-40=50,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Lobatos, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	181	427	590	420	340	350	892	1100	223	27	17	16
2....	186	421	600	420	350	350	884	1250	177	26	18	16
3....	172	408	690	430	360	350	946	1270	172	21	16	15
4....	172	414	600	430	350	350	1040	1120	168	20	19	13
5....	168	440	660	430	350	350	1150	1130	172	18	21	21
6....	159	389	665	440	340	350	1070	1070	223	17	18	46
7....	186	488	650	450	340	350	1020	1180	209	16	28	39
8....	261	537	645	440	340	350	892	1060	164	15	28	42
9....	364	682	660	420	340	350	788	964	127	15	27	41
10....	730	722	650	410	340	360	780	919	88	13	21	41
11....	901	730	670	450	335	370	831	910	76	13	18	41
12....	814	730	675	460	335	380	780	892	63	12	16	42
13....	746	730	660	460	335	400	698	788	54	10	16	54
14....	706	650	520	410	335	450	674	674	46	10	14	79
15....	650	619	450	360	335	520	722	706	41	12	14	63
16....	635	635	470	370	330	550	714	682	41	14	13	56
17....	674	674	540	370	330	613	650	627	42	11	13	56
18....	746	674	600	360	330	730	596	537	41	10	13	56
19....	857	666	500	350	330	860	522	460	38	10	13	51
20....	875	650	500	334	330	1040	447	434	44	9.0	13	44
21....	814	642	550	340	330	1240	440	522	46	8.5	24	41
22....	780	706	570	340	330	1300	454	551	46	8.5	16	38
23....	746	690	490	340	330	1490	573	515	42	9.5	16	39
24....	722	475	430	340	330	1560	772	474	42	8.0	15	38
25....	690	430	400	340	330	1590	698	414	41	8.5	15	39
26....	658	465	400	340	335	1480	627	395	36	8.5	15	42
27....	627	530	410	340	340	1460	635	382	33	8.0	17	44
28....	566	600	410	340	340	1400	722	324	34	12	18	51
29....	508	575	420	340	....	1270	814	292	30	13	18	39
30....	481	575	420	340	....	1130	982	252	28	13	17	38
31	440	....	420	340	....	982	....	237	....	14	16	....
Total	17215	17374	16915	11954	9440	24325	22813	22131	2587	410.5	543	1241
Mean.	555	579	546	386	337	785	760	714	86.2	13.2	17.5	41.4
Max..	901	730	690	460	360	1590	1150	1270	223	27	28	79
Min...	159	389	400	334	330	350	440	237	28	8.0	13	13
Acre-ft.	34150	34460	33550	23710	18720	48250	45250	43900	5130	814	1080	2460

Total run-off for water year 1938-39=291,470 acre-feet.

Discharge of Rio Grande River Near Lobatos, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	42	68	143	212	230	350	93	99	706	18	5.5	19
2....	51	68	143	210	240	350	90	90	642	17	5.5	16
3....	41	68	134	205	235	350	79	79	530	16	5.5	16
4....	41	66	138	204	240	380	79	76	376	15	5.0	17
5....	36	66	138	201	240	420	74	103	232	15	5.5	17
6....	33	68	143	197	240	427	79	123	168	13	7.5	16
7....	34	68	147	190	240	408	79	120	127	12	9.5	16
8....	41	66	151	192	247	402	74	127	96	12	10	15
9....	46	68	159	196	233	395	68	168	76	12	10	13
10....	51	76	159	199	233	376	63	159	66	11	10	19
11....	46	71	164	204	237	370	56	123	61	10	9.0	17
12....	49	71	159	207	239	341	54	116	56	10	12	21
13....	61	71	160	201	225	335	54	134	49	10	13	25
14....	63	71	165	197	237	271	51	181	44	9.0	14	25
15....	63	71	153	194	248	282	51	228	41	9.5	13	25
16....	63	71	150	194	244	287	99	266	38	10	9.5	25
17....	66	82	150	190	235	282	147	308	36	9.0	8.5	28
18....	66	76	148	190	242	247	123	690	33	9.5	10	33
19....	76	76	154	190	260	232	90	1100	31	10	11	38
20....	68	90	145	200	254	218	58	814	28	10	10	34
21....	68	92	143	210	246	209	46	573	27	12	9.0	31
22....	66	90	145	215	270	204	51	481	26	12	10	30
23....	66	88	148	210	268	172	103	481	25	11	15	30
24....	66	93	152	210	264	143	159	551	22	12	15	31
25....	66	93	167	210	264	138	209	558	20	9.0	18	33
26....	68	155	175	210	268	120	209	537	18	8.5	20	54
27....	63	123	182	210	290	120	186	558	18	9.5	20	39
28....	66	155	198	215	320	164	204	619	17	8.5	27	38
29....	71	151	196	220	340	155	177	690	16	8.5	20	36
30....	66	134	200	220	....	130	120	706	18	8.0	18	38
31....	68	....	205	225	....	110	....	722	....	8.0	17	....
Total	1771	2606	4914	6328	7329	8388	3025	11580	3643	345	373	795
Mean.	57.1	86.9	159	204	253	271	101	374	121	11.1	12.0	26.5
Max..	76	155	205	225	340	427	209	1100	706	18	27	54
Min...	33	66	134	190	225	110	46	76	16	8.0	5.0	13
Acre-ft.	3510	5170	9750	12550	14540	16640	6000	22970	7230	684	740	1580

Total run-off for water year 1939-40=101,360 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek Below Continental Reservoir, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	45	5	....	....	....	20	173	169	41	25	32
2....	16	45	5	....	....	....	20	166	169	41	25	30
3....	17	45	5	....	....	....	20	131	168	41	23	27
4....	16	45	5	....	....	....	20	106	165	40	23	17
5....	17	45	5	....	....	....	20	166	145	40	25	11
6....	16	44	5	....	....	....	20	228	124	40	27	13
7....	17	44	5	....	....	....	20	226	112	40	24	13
8....	20	24	5	....	....	....	20	191	110	40	25	15
9....	22	6.4	5	....	....	....	20	175	108	40	26	19
10....	22	5.4	5	....	....	....	20	171	108	41	25	18
11....	24	5.9	5	....	....	....	20	172	108	44	18	18
12....	25	7.4	5	....	....	....	20	171	89	46	13	19
13....	27	7.4	5	....	....	....	20	164	72	46	15	19
14....	32	6.9	5	....	....	....	20	158	72	46	17	18
15....	36	6.9	5	....	....	....	20	139	72	44	17	13
16....	40	4.0	5	....	....	....	20	126	66	45	20	13
17....	44	3.6	5	....	....	....	20	126	54	43	21	12
18....	44	5.0	5	....	....	....	20	135	54	31	26	12
19....	44	5	5	....	....	....	36	149	46	30	27	12
20....	44	5	5	....	....	....	56	173	40	33	26	13
21....	44	5	5	....	....	....	76	189	39	31	25	12
22....	44	5	5	....	....	....	100	188	39	35	26	12
23....	44	5	5	....	....	....	106	187	38	37	27	11
24....	44	5	5	....	....	....	126	147	38	35	27	10
25....	44	5	20	....	....	....	93	102	38	34	18	9.3
26....	44	5	20	....	....	....	80	78	38	27	14	11
27....	44	5	20	....	....	....	108	68	36	28	16	15
28....	44	5	20	....	....	....	170	113	36	31	18	14
29....	44	5	20	....	....	....	192	143	35	24	19	15
30....	44	5	20	....	....	....	175	159	40	21	21	17
31....	44	....	20	....	....	....	....	169	....	24	29	....
Total	1023	455.9	260	620	560	620	1678	4789	2428	1139	688	470.3
Mean.	33	15.2	8.39	20	20	20	55.9	154	80.9	36.7	22.2	15.7
Max..	44	45	20	....	....	....	192	228	169	46	29	32
Min...	16	3.6	5	....	....	....	20	68	35	21	13	9.3
Acre-ft.	2030	904	516	1230	1110	1230	3330	9500	4820	2260	1360	933

Total run-off for water year 1938-39=29,220 acre-feet.

Discharge of Clear Creek Below Continental Reservoir for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	17	....	....	....	....	....	10	26	46	22	8.6	14
2....	17	....	....	....	....	....	10	27	47	22	7.8	14
3....	17	....	....	....	....	....	10	31	45	18	7.8	16
4....	17	....	....	....	....	....	10	32	46	16	8.6	17
5....	17	....	....	....	....	....	10	31	48	16	9.0	11
6....	17	....	....	....	....	....	10	30	47	16	14	8.2
7....	17	....	....	....	....	....	10	28	46	15	14	8.2
8....	17	....	....	....	....	....	10	27	45	14	13	7.4
9....	17	....	....	....	....	....	10	59	58	14	14	8.6
10....	17	....	....	....	....	....	10	136	66	16	14	7.8
11....	17	....	....	....	....	....	10	136	57	16	15	7.0
12....	10	....	....	....	....	....	10	134	30	15	9.0	7.8
13....	10	....	....	....	....	....	10	130	22	14	7.8	7.4
14....	10	....	....	....	....	....	10	129	22	14	8.2	7.4
15....	10	....	....	....	....	....	10	129	24	14	8.2	11
16....	10	....	....	....	....	....	10	128	25	18	9.0	15
17....	10	....	....	....	....	....	10	100	24	18	11	16
18....	10	....	....	....	....	....	10	70	23	17	12	16
19....	10	....	....	....	....	....	10	61	21	16	11	14
20....	10	....	....	....	....	....	10	49	14	16	16	12
21....	10	....	....	....	....	....	10	42	15	16	18	9.4
22....	10	....	....	....	....	....	17	88	19	16	17	9.4
23....	10	....	....	....	....	....	24	128	20	13	16	9.8
24....	10	....	....	....	....	....	25	66	20	14	12	11
25....	11	....	....	....	....	....	25	38	21	15	11	11
26....	11	....	....	....	....	....	25	38	18	16	9.8	10
27....	11	....	....	....	....	....	25	35	20	18	11	9.4
28....	10	....	....	....	....	....	25	39	24	17	11	9.8
29....	10	....	....	....	....	....	25	45	24	12	13	12
30....	8.3	....	....	....	....	....	25	46	22	11	16	14
31....	8.3	....	....	....	....	....	....	46	....	11	16	....
Total	386.6	255	279	279	275.5	294.5	426	2104	959	486	368.8	331.6
Mean.	12.5	8.5	9.0	9.0	9.5	9.5	14.2	67.9	32.0	15.7	11.9	11.1
Max..	17	....	....	....	....	....	25	136	66	22	18	17
Min...	8.3	....	....	....	....	....	10	26	14	11	7.8	7.0
Acre-ft.	767	506	553	553	546	584	845	4170	1900	964	732	658

Total run-off for water year 1939-40=12,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Goose Creek Near Wagon Wheel Gap, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	20	14	11	12	13	21	30	114	31	18	21
2....	15	20	14	12	12	13	20	42	98	26	18	20
3....	15	19	12	12	12	13	19	71	90	24	18	23
4....	15	18	12	12	13	14	20	98	84	24	18	22
5....	15	18	14	12	13	14	21	95	79	18	18	20
6....	15	17	13	12	13	13	19	101	69	22	21	20
7....	16	16	13	12	14	13	18	101	65	20	20	19
8....	18	17	13	12	14	14	18	90	61	21	19	20
9....	18	18	14	12	14	14	18	71	53	21	18	19
10....	16	17	14	12	14	14	18	82	46	22	18	18
11....	16	17	13	12	14	14	18	93	45	22	18	17
12....	16	17	14	12	13	14	18	95	44	21	18	18
13....	17	16	12	13	13	13	22	101	42	20	17	20
14....	17	16	12	13	13	13	28	123	42	21	16	19
15....	16	16	12	13	13	13	29	114	44	20	18	20
16....	16	16	12	13	14	13	24	110	46	20	18	18
17....	16	16	12	13	14	14	24	104	44	19	17	20
18....	16	14	12	13	13	14	28	90	40	18	17	55
19....	16	13	12	13	14	16	35	71	39	18	21	69
20....	16	13	12	13	13	16	45	67	38	19	27	50
21....	15	13	12	12	14	17	53	55	35	23	25	40
22....	14	13	12	12	13	19	50	55	36	18	23	40
23....	14	14	12	12	14	20	57	57	35	17	23	39
24....	16	15	12	12	14	21	61	61	29	18	25	40
25....	18	15	11	12	13	23	67	65	28	18	25	38
26....	20	15	11	12	13	25	71	76	29	29	24	38
27....	17	14	11	12	13	23	63	98	28	31	24	38
28....	19	14	12	13	13	20	42	107	26	21	25	35
29....	20	12	10	13	13	19	35	107	25	20	24	50
30....	18	14	10	13	....	19	30	107	42	20	23	59
31....	19	....	10	12	....	22	....	117	....	19	21	....
Total	511	473	379	382	385	503	992	2654	1496	661	635	925
Mean.	16.5	15.8	12.2	12.3	13.3	16.2	33.1	85.6	49.9	21.3	20.5	30.8
Max..	20	20	14	13	14	25	71	123	114	31	27	69
Min...	14	12	10	11	12	13	18	30	25	17	16	17
Acre-ft.	1010	938	752	758	764	998	1970	5260	2970	1310	1260	1830

Total run-off for water year 1939-40=19,820 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Fork of Rio Grande River at South Fork, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	95	95	62	....	....	42	171	453	682	128	72	45
2....	95	91	64	....	....	42	196	490	672	116	71	44
3....	100	79	62	....	....	42	219	465	677	104	71	42
4....	105	80	60	....	....	42	208	437	778	96	59	42
5....	105	80	56	....	....	42	189	477	766	92	54	43
6....	140	75	70	....	....	42	196	554	657	86	63	56
7....	170	60	90	....	....	42	173	506	581	82	80	71
8....	220	80	90	....	....	42	196	519	537	77	64	74
9....	200	100	90	....	....	42	227	581	511	77	52	82
10....	180	100	90	....	....	42	201	652	494	71	52	71
11....	170	95	88	....	....	50	175	693	481	67	49	98
12....	150	90	86	....	....	50	182	662	449	64	47	89
13....	130	80	82	....	....	50	203	581	426	60	45	94
14....	135	75	65	....	*42	50	213	528	403	61	45	110
15....	140	85	75	....	....	50	180	498	367	65	42	142
16....	150	95	75	....	....	80	158	494	321	75	42	106
17....	170	95	75	....	....	80	144	445	292	68	42	95
18....	165	85	75	....	....	80	140	519	258	65	40	86
19....	155	94	75	....	....	80	156	662	232	62	41	78
20....	150	92	75	....	....	80	173	729	213	61	41	73
21....	145	87	65	....	....	110	219	719	196	58	44	68
22....	140	83	55	....	....	157	264	740	184	58	44	65
23....	135	80	50	....	....	175	286	724	184	56	42	62
24....	128	70	50	....	....	200	267	693	175	52	42	59
25....	121	62	48	....	....	194	238	682	156	50	42	56
26....	114	62	47	*48	....	189	232	662	146	54	44	61
27....	110	62	47	....	....	164	244	677	138	66	55	66
28....	107	62	47	....	....	133	289	662	137	77	57	58
29....	101	62	47	....	....	122	356	657	131	83	67	55
30....	101	62	47	....	....	119	395	682	129	87	52	53
31....	95	....	47	....	....	131	....	662	....	98	48	....
Total	4222	2418	2055	1488	1176	2764	6490	18505	11373	2316	1609	2144
Mean.	136	80.6	66.3	48	42	89.2	216	597	379	74.7	51.9	71.5
Max..	....	....	....	....	....	....	395	740	778	128	80	142
Min...	95	....	....	....	....	....	140	437	129	50	40	42
Acre-ft.	8370	4800	4080	2950	2330	5480	12870	36700	22560	4590	3190	4250

Total run-off for water year 1938-39=112,170 acre-feet.

*Discharge measurement.

Discharge of South Fork of Rio Grande River at South Fork, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	52	52	32	30	36	42	92	169	481	92	52	44
2....	51	52	30	32	36	41	80	186	453	78	50	42
3....	49	52	31	31	36	40	77	267	426	71	50	49
4....	47	50	31	31	36	39	74	363	407	65	45	44
5....	47	52	32	30	36	40	82	385	429	65	44	40
6....	47	54	31	30	36	41	77	403	437	69	60	38
7....	47	47	30	32	38	41	73	418	418	58	57	38
8....	59	50	31	34	38	43	75	399	395	58	52	42
9....	58	54	33	35	38	50	80	381	288	52	47	38
10....	52	50	35	35	38	58	83	422	252	51	41	35
11....	52	49	34	36	38	55	78	414	238	48	42	39
12....	52	49	31	34	38	52	83	395	224	50	39	36
13....	53	51	30	33	39	48	101	465	222	48	37	47
14....	53	47	30	34	39	52	126	485	230	52	35	47
15....	52	47	29	35	41	58	135	490	222	49	33	52
16....	51	45	32	36	40	62	121	498	211	49	33	49
17....	50	43	30	37	36	62	110	523	198	46	33	40
18....	48	43	28	37	36	64	119	523	182	45	40	86
19....	49	42	27	39	38	68	152	441	171	44	48	138
20....	45	36	26	38	41	68	189	418	160	43	56	104
21....	40	40	26	37	41	76	213	381	156	49	94	80
22....	37	38	26	36	42	82	219	363	158	45	58	84
23....	33	37	27	36	42	94	238	367	148	44	56	79
24....	32	37	29	35	43	104	264	374	126	49	64	86
25....	51	39	27	35	42	114	283	374	116	44	78	78
26....	66	44	27	35	45	122	302	399	104	53	66	79
27....	47	43	26	36	45	117	312	429	98	91	67	86
28....	51	38	27	35	43	100	232	445	87	110	55	75
29....	52	36	28	34	43	88	196	457	88	71	55	88
30....	51	33	29	34	....	89	180	465	126	67	50	106
31....	51	....	30	34	....	95	....	481	....	58	45	....
Total	1525	1350	915	1066	1140	2105	4446	12580	7251	1814	1582	1889
Mean.	49.2	45.0	29.5	34.4	39.3	67.9	148	406	242	58.5	51.0	63.0
Max..	66	54	....	....	....	122	312	523	481	110	94	138
Min...	32	33	....	....	....	....	73	169	87	43	33	35
Acre-ft.	3020	2680	1810	2110	2260	4180	8820	24950	14380	3600	3140	3750

Total run-off for water year 1939-40=74,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pinos Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	13	....	....	....	....	20	70	58	20	10	5.7
2....	12	11	....	....	....	....	23	73	58	17	9.9	6.0
3....	12	11	....	....	....	....	26	71	59	15	8.8	5.0
4....	11	16	....	....	....	....	23	66	63	14	7.7	4.7
5....	11	13	....	....	....	....	21	71	60	13	7.4	4.7
6....	13	12	....	....	....	....	20	80	54	13	8.8	6.0
7....	26	26	....	....	....	....	18	71	51	12	12	6.0
8....	28	8.4	....	....	....	....	22	69	50	12	9.9	6.7
9....	20	11	....	....	....	....	28	78	47	10	8.1	7.7
10....	17	10	....	....	....	....	23	86	46	8.4	7.4	8.1
11....	17	....	....	....	....	....	20	86	46	8.4	6.7	11
12....	16	....	....	....	....	....	22	79	43	7.4	6.0	8.8
13....	17	....	....	....	....	....	29	70	40	7.0	6.0	8.1
14....	18	....	....	....	....	....	31	65	38	6.7	6.4	9.5
15....	21	....	....	....	....	....	27	67	33	8.1	5.3	12
16....	28	....	....	....	....	....	20	65	33	10	5.0	9.9
17....	22	....	....	....	....	....	18	59	28	11	4.7	8.8
18....	16	....	....	....	....	....	18	68	26	9.5	4.4	9.2
19....	15	....	....	....	....	....	20	83	25	8.1	4.7	7.7
20....	15	....	....	....	....	....	26	84	26	6.7	5.0	7.0
21....	14	....	....	....	....	....	36	82	23	6.0	6.7	7.0
22....	14	....	....	....	....	....	45	83	22	6.4	6.7	6.4
23....	14	....	....	....	....	....	47	79	23	6.0	5.3	6.4
24....	14	....	....	....	....	....	35	71	21	5.3	5.7	6.0
25....	13	....	....	....	....	....	35	64	19	5.0	5.7	6.0
26....	12	....	....	....	....	....	39	60	18	7.7	6.0	7.0
27....	13	....	....	....	....	....	39	60	18	11	7.7	7.7
28....	13	....	....	....	....	Mar. 30	50	60	19	12	8.4	6.0
29....	12	....	....	....	....	to 31	63	60	18	12	8.1	5.7
30....	13	Nov. 1	....	....	....	11	65	58	20	11	6.7	5.3
31....	12	to 10	....	....	....	14	....	55	....	16	6.0	....
Total	490	131.4	....	....	....	25	909	2193	1085	315.7	217.2	216.1
Mean.	15.8	13.1	....	....	....	12.5	30.3	70.7	36.2	10.2	7.01	7.20
Max..	28	26	....	....	....	14	65	86	63	20	12	12
Min...	11	8.4	....	....	....	11	18	55	18	5.0	4.4	4.7
Acre-ft.	972	261	....	....	....	50	1800	4350	2150	626	431	429

Total run-off for period=11,069 acre-feet.

Discharge of Pinos Creek Near Del Norte, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.3	6.0	....	....	....	....	11	14	38	11	8.8	5.3
2....	5.3	6.0	....	....	....	....	10	21	37	10	8.1	5.3
3....	5.0	6.0	....	....	....	....	9.9	32	32	10	8.8	6.0
4....	5.0	6.0	....	....	....	....	9.9	42	30	11	8.8	5.3
5....	4.7	6.0	....	....	....	....	8.8	41	30	11	9.2	4.7
6....	4.7	4.7	....	....	....	....	8.4	36	29	11	13	4.7
7....	4.7	....	....	....	....	....	8.4	32	26	8.8	12	5.0
8....	5.7	....	....	....	....	....	8.1	33	23	8.8	10	5.0
9....	6.0	....	....	....	....	....	9.2	28	22	8.1	9.2	4.2
10....	5.0	....	....	....	....	....	10	34	20	7.7	6.7	5.7
11....	5.7	....	....	....	....	....	12	33	19	8.4	6.7	5.7
12....	5.3	....	....	....	....	....	11	32	18	8.1	6.7	5.0
13....	4.7	....	....	....	....	....	15	52	17	8.8	6.4	6.3
14....	4.2	....	....	....	....	....	20	44	16	8.4	6.4	5.7
15....	4.2	....	....	....	....	....	22	40	15	7.7	6.4	5.0
16....	4.7	....	....	....	....	....	16	43	14	8.4	6.7	4.4
17....	5.7	....	....	....	....	....	11	46	14	8.1	6.0	4.7
18....	5.7	....	....	....	....	....	12	49	12	8.4	7.4	9.2
19....	6.0	....	....	....	....	....	17	44	11	7.7	9.2	7.7
20....	4.7	....	....	....	....	....	22	44	11	9.9	11	6.7
21....	4.4	....	....	....	....	....	26	38	11	12	9.2	6.0
22....	5.0	....	....	....	....	....	25	38	11	9.5	7.7	6.7
23....	5.0	....	....	....	....	....	23	42	10	8.4	7.7	5.7
24....	5.0	....	....	....	....	....	22	41	9.5	12	9.2	5.3
25....	5.0	....	....	....	....	....	30	41	9.9	8.1	8.8	4.7
26....	5.3	....	....	....	....	....	35	47	10	8.8	7.7	4.7
27....	3.6	....	....	....	....	....	35	50	11	12	7.7	5.3
28....	5.0	....	....	....	....	....	24	47	10	9.9	6.4	4.4
29....	5.7	....	....	....	....	....	18	46	12	9.9	7.0	4.4
30....	5.0	Nov. 1	....	....	....	....	13	42	18	12	6.7	5.3
31....	5.7	to 6	....	....	....	....	....	40	....	11	6.0	....
Total	157.0	34.7	....	....	....	....	502.7	1212	546.4	294.9	251.6	164.1
Mean.	5.06	5.78	....	....	....	....	16.8	39.1	18.2	9.51	8.12	5.47
Max..	6.0	6.0	....	....	....	....	35	52	38	12	13	9.2
Min...	3.6	4.7	....	....	....	....	8.1	14	9.5	7.7	6.0	4.2
Acre-ft.	311	69	....	....	....	....	997	2400	1080	585	499	325

Total run-off for period=6,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Francisco Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.6	1.2	....	....	....	....	....	11	11	3.8	1.5	1.5
2....	2.6	1.0	....	....	....	....	....	13	11	2.8	1.7	1.2
3....	2.6	....	....	....	....	....	....	11	11	2.6	1.5	1.0
4....	2.3	....	....	....	....	....	....	12	12	2.3	1.0	1.0
5....	2.1	....	....	....	....	....	....	13	12	2.3	1.7	1.0
6....	2.1	....	....	....	....	....	....	14	11	2.3	1.5	1.0
7....	3.8	....	....	....	....	....	....	13	9.2	2.3	1.7	1.0
8....	3.8	....	....	....	....	....	....	13	7.9	2.3	1.2	1.0
9....	2.3	....	....	....	....	....	....	14	7.2	2.1	1.2	1.5
10....	2.1	....	....	....	....	....	....	17	7.9	2.1	1.2	1.5
11....	2.3	....	....	....	....	....	....	17	7.9	2.1	1.0	1.9
12....	2.8	....	....	....	....	....	....	13	7.2	1.7	1.0	1.5
13....	2.8	....	....	....	....	....	....	13	7.9	1.7	1.2	1.5
14....	2.8	....	....	....	....	....	....	13	6.8	1.7	1.2	1.5
15....	2.8	....	....	....	....	....	....	12	6.4	1.9	1.2	1.5
16....	3.0	....	....	....	....	....	....	11	6.4	2.3	1.2	1.5
17....	3.0	....	....	....	....	....	Apr. 19	9.9	5.5	2.1	1.0	1.2
18....	2.8	....	....	....	....	....	to 30	12	5.1	1.7	1.2	1.2
19....	2.6	....	....	....	....	....	3.0	17	4.7	1.5	1.0	1.2
20....	2.3	....	....	....	....	....	3.4	15	4.7	1.5	1.2	1.2
21....	2.8	....	....	....	....	....	4.3	14	5.1	1.2	1.5	1.2
22....	2.8	....	....	....	....	....	4.7	13	5.5	1.5	1.2	1.5
23....	2.6	....	....	....	....	....	5.1	12	5.5	1.2	1.2	1.5
24....	2.6	....	....	....	....	....	4.7	11	4.7	1.0	1.2	1.5
25....	2.6	....	....	....	....	....	4.3	9.9	4.3	1.0	1.2	1.2
26....	2.6	....	....	....	....	....	3.8	7.9	3.8	1.2	1.2	1.7
27....	2.8	....	....	....	....	....	3.8	8.6	3.8	1.7	1.5	1.5
28....	2.6	....	....	....	....	....	5.9	9.2	3.4	2.1	1.9	1.5
29....	2.1	....	....	....	....	....	7.2	9.2	3.8	2.1	1.2	1.2
30....	1.7	Nov. 1	....	....	....	....	7.9	9.9	3.8	1.9	1.5	1.2
31....	1.5	to 2	....	....	....	....	....	9.9	....	2.1	1.5	....
Total	80.2	2.2	....	....	....	....	58.1	378.5	206.5	60.1	40.5	39.9
Mean.	2.59	1.1	....	....	....	....	4.84	12.2	6.88	1.94	1.31	1.33
Max..	3.8	1.2	....	....	....	....	7.9	17	12	3.8	1.9	1.9
Min...	1.5	1.1	....	....	....	....	3.0	7.9	3.4	1.0	1.0	1.0
Acre-ft.	159	4.4	....	....	....	....	115	751	410	119	80	79

Total run-off for period=1,717 acre-feet.

Discharge of San Francisco Creek Near Del Norte, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.2	....	....	....	....	....	1.6	1.0	4.7	2.3	1.5	1.5
2....	1.0	....	....	....	....	....	1.5	2.6	5.1	2.1	1.5	1.5
3....	0.8	....	....	....	....	....	1.2	6.4	4.3	2.1	1.0	1.5
4....	0.8	....	....	....	....	....	1.2	5.9	3.8	1.9	0.8	1.2
5....	0.7	....	....	....	....	....	1.0	3.8	3.8	1.9	1.0	1.0
6....	0.7	....	....	....	....	....	1.0	3.0	3.4	1.7	1.7	1.5
7....	0.7	....	....	....	....	....	1.1	3.4	3.0	1.7	1.7	1.2
8....	0.8	....	....	....	....	....	1.1	3.0	3.4	1.7	1.2	0.7
9....	0.8	....	....	....	....	....	1.2	2.8	3.4	1.7	1.2	0.7
10....	0.8	....	....	....	....	....	1.0	3.4	3.0	1.5	1.2	1.0
11....	0.8	....	....	....	....	....	1.5	3.4	2.8	1.5	1.2	1.2
12....	0.7	....	....	....	....	....	1.9	3.0	2.8	1.5	1.0	1.0
13....	0.7	....	....	....	....	....	1.2	3.8	2.8	1.2	1.0	1.2
14....	0.7	....	....	....	....	....	1.5	3.8	2.8	1.2	0.8	0.8
15.. ..	0.7	....	....	....	....	....	1.7	3.8	2.6	1.2	0.8	0.8
16....	0.7	....	....	....	....	....	1.2	4.0	2.6	1.7	1.0	0.7
17....	0.8	....	....	....	....	....	1.0	4.2	2.6	1.7	1.0	0.8
18....	0.8	....	....	....	....	....	0.7	4.6	2.6	1.9	2.6	1.2
19....	0.8	....	....	....	....	....	0.7	3.8	2.3	1.7	2.8	1.0
20....	0.8	....	....	....	....	....	0.8	3.4	2.1	1.9	2.8	1.0
21....	0.8	....	....	....	....	....	0.8	3.8	2.1	1.9	2.3	1.0
22....	0.8	....	....	....	....	....	0.8	4.3	2.1	1.9	1.9	1.5
23....	0.8	....	....	....	....	....	1.0	5.1	1.9	1.5	1.7	1.7
24....	0.7	....	....	....	....	....	1.0	5.9	1.9	1.5	2.1	1.7
25....	0.8	....	....	....	....	....	1.5	6.8	1.9	1.5	1.9	1.9
26....	1.0	....	....	....	....	....	2.1	7.9	1.9	1.5	1.5	1.9
27....	1.0	....	....	....	....	....	2.3	7.9	1.9	1.5	1.5	1.9
28....	1.0	....	....	....	....	....	1.5	7.9	2.1	1.5	1.5	1.7
29....	0.8	....	....	....	....	....	1.0	5.9	2.6	1.2	1.5	1.7
30....	1.7	....	....	....	....	....	0.7	5.1	2.8	1.5	1.5	1.9
31....	0.7	....	....	....	....	....	....	4.7	....	1.2	1.7	....
Total	25.9	....	....	....	....	....	36.8	138.4	85.1	50.8	46.9	38.4
Mean.	0.84	....	....	....	....	....	1.23	4.46	2.84	1.64	1.51	1.28
Max..	1.7	....	....	....	....	....	2.3	7.9	5.1	2.3	2.8	1.9
Min...	0.7	....	....	....	....	....	0.7	1.0	1.9	1.2	0.8	0.7
Acre-ft.	51	....	....	....	....	....	73	275	169	101	93	76

Total run-off for period=838 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rock Creek Near Monte Vista, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.9	....	....	....	....	....	15	36	22	9.6	4.2	4.0
2....	5.9	....	....	....	....	....	17	38	22	8.3	6.0	3.8
3....	6.7	....	....	....	....	....	20	36	20	7.3	5.7	3.4
4....	6.4	....	....	....	....	....	17	38	22	7.0	4.0	3.1
5....	5.9	....	....	....	....	....	17	37	22	6.5	4.2	3.4
6....	5.9	....	....	....	....	....	16	40	20	6.2	6.2	4.0
7....	14	....	....	....	....	....	15	37	19	6.0	7.6	3.6
8....	16	....	....	....	....	....	20	37	18	6.0	5.7	3.8
9....	11	....	....	....	....	....	22	40	17	6.0	4.4	4.7
10....	10	....	....	....	....	....	18	42	16	5.4	4.4	5.2
11....	11	....	....	....	....	....	16	39	16	5.4	4.7	5.7
12....	11	....	....	....	....	....	17	35	15	5.2	4.4	5.2
13....	12	....	....	....	....	....	20	33	14	5.2	4.2	4.4
14....	12	....	....	....	....	....	18	32	13	5.4	4.2	4.2
15....	13	....	....	....	....	....	15	31	12	6.5	4.4	4.7
16....	13	....	....	....	....	....	14	29	12	8.0	4.0	4.7
17....	12	....	....	....	....	....	12	26	12	6.7	4.4	4.4
18....	11	....	....	....	....	....	12	27	11	5.4	4.0	4.4
19....	11	....	....	....	....	....	13	31	10	4.9	4.0	4.2
20....	9.8	....	....	....	....	....	15	38	9.9	4.7	4.5	4.2
21....	9.4	....	....	....	....	....	18	38	9.2	5.2	5.4	4.0
22....	9.4	....	....	....	....	....	24	36	8.3	5.7	4.7	4.2
23....	8.8	....	....	....	....	....	26	29	8.9	4.4	4.0	4.4
24....	7.9	....	....	....	....	....	24	25	8.6	4.0	4.2	4.2
25....	7.5	....	....	....	....	....	22	22	7.6	3.6	4.0	4.2
26....	7.5	....	....	....	....	....	24	22	7.3	3.6	4.0	5.2
27....	7.5	....	....	....	....	....	24	22	7.6	4.2	4.7	5.4
28....	7.0	....	....	....	....	Mar. 30	28	20	7.3	6.0	5.7	4.7
29....	7.0	....	....	....	....	to 31	34	22	8.0	5.4	4.4	4.4
30....	6.5	....	....	....	....	9.2	34	20	10	4.9	4.2	4.2
31....	6.5	....	....	....	....	11	....	20	....	5.7	4.2	....
Total	288.5	....	....	....	....	20.2	587	978	405.7	178.4	144.7	130.0
Mean.	9.31	....	....	....	....	10.1	19.6	31.5	13.5	5.75	4.67	4.33
Max..	16	....	....	....	....	11	34	42	22	9.6	7.6	5.7
Min...	5.9	....	....	....	....	9.2	12	20	7.3	3.6	4.0	3.1
Acre-ft.	572	....	....	....	....	40	1160	1940	805	354	287	258

Total run-off for period=5,416 acre-feet.

Discharge of Rock Creek Near Monte Vista, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.2	2.9	....	....	....	....	6.3	7.0	15	5.8	3.4	2.6
2....	3.8	2.9	....	....	....	....	6.1	12	14	5.1	3.2	2.5
3....	3.6	3.1	....	....	....	....	5.1	17	13	4.9	3.4	2.6
4....	3.4	2.9	....	....	....	....	5.2	14	12	5.1	3.0	2.5
5....	3.4	3.1	....	....	....	....	4.7	10	12	5.6	3.0	2.5
6....	3.4	3.1	....	....	....	....	4.7	9.5	11	5.3	3.4	2.1
7....	3.4	3.6	....	....	....	....	4.9	10	10	4.9	3.4	2.1
8....	3.6	4.0	....	....	....	....	4.9	10	9.5	4.7	3.0	2.1
9....	3.8	4.7	....	....	....	....	5.6	8.4	9.2	4.7	2.8	2.1
10....	4.0	4.9	....	....	....	....	5.4	11	8.5	4.5	2.5	2.6
11....	4.0	....	....	....	....	....	5.8	9.8	8.2	4.3	2.5	3.2
12....	4.0	....	....	....	....	....	6.2	10	7.8	4.3	2.5	2.8
13....	4.2	....	....	....	....	....	6.5	15	7.8	4.0	2.3	3.4
14....	4.0	....	....	....	....	....	8.0	13	7.8	4.3	2.1	3.2
15....	4.0	....	....	....	....	....	9.2	12	7.3	3.6	2.1	3.0
16....	4.0	....	....	....	....	....	7.5	13	7.0	4.7	1.9	2.6
17....	4.0	....	....	....	....	....	6.8	15	6.8	4.0	2.3	2.6
18....	3.8	....	....	....	....	....	7.0	17	6.3	4.5	2.1	3.8
19....	4.0	....	....	....	....	....	8.2	15	6.8	4.0	2.8	3.2
20....	3.8	....	....	....	....	....	9.5	16	6.3	4.5	4.3	3.2
21....	3.6	....	....	....	....	....	10	16	6.1	5.8	3.2	2.8
22....	3.8	....	....	....	....	....	11	16	5.8	4.3	3.0	3.4
23....	3.8	....	....	....	....	....	11	20	5.6	4.3	3.6	3.4
24....	3.4	....	....	....	....	....	9.2	19	5.8	4.5	4.3	3.2
25....	3.4	....	....	....	....	....	11	19	5.6	3.6	3.2	3.2
26....	3.8	....	....	....	....	....	15	22	5.3	3.6	3.0	3.2
27....	2.7	....	....	....	....	Mar. 29	12	20	5.8	4.5	3.0	3.4
28....	2.9	....	....	....	....	to 31	8.0	19	5.3	4.3	2.8	3.2
29....	3.3	....	....	....	....	4.9	7.3	18	6.5	4.5	3.0	3.0
30....	2.9	Nov. 1	....	....	....	5.6	7.0	18	8.8	4.3	2.8	3.2
31....	3.1	to 10	....	....	....	6.1	....	16	....	3.8	2.8	....
Total	113.1	35.2	....	....	....	16.6	229.1	447.7	246.9	140.3	90.7	86.7
Mean.	3.65	3.52	....	....	....	5.53	7.64	14.4	8.23	4.53	2.93	2.89
Max..	4.2	4.9	....	....	....	6.1	15	22	15	5.8	4.3	3.8
Min...	2.7	2.9	....	....	....	5.6	4.7	7.0	5.3	3.6	1.9	2.1
Acre-ft.	224	70	....	....	....	23	454	888	490	278	180	172

Total run-off for period=2,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Alamosa River Above Terrace Reservoir, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	40	41	....	....	....	....	50	336	363	77	54	24
2....	39	40	....	....	....	....	68	372	368	70	49	24
3....	39	38	....	....	....	....	75	350	390	69	45	22
4....	35	40	....	....	....	....	79	341	461	68	39	20
5....	37	43	....	....	....	....	68	368	430	64	38	21
6....	40	37	....	....	....	....	70	420	341	62	45	25
7....	68	28	....	....	....	....	60	354	290	54	53	25
8....	86	....	....	....	....	....	74	363	262	53	42	32
9....	68	....	....	....	....	....	97	430	262	53	35	45
10....	62	....	....	....	....	....	95	493	302	49	32	50
11....	58	....	....	....	....	....	75	516	298	48	30	74
12....	54	....	....	....	....	....	75	435	278	44	29	66
13....	60	....	....	....	....	....	95	368	262	41	27	62
14....	69	....	....	....	....	....	107	358	254	40	27	89
15....	86	....	....	....	....	....	86	354	203	40	25	120
16....	132	....	....	....	....	....	72	336	180	44	25	87
17....	107	....	....	....	....	....	64	266	162	41	24	74
18....	82	....	....	....	....	....	63	332	140	38	24	63
19....	74	....	....	....	....	....	75	493	120	35	24	54
20....	64	....	....	....	....	....	95	516	114	32	25	49
21....	62	....	....	....	....	....	130	493	105	31	29	43
22....	62	....	....	....	....	Mar. 24	165	504	105	31	27	41
23....	57	....	....	....	....	to 31	174	472	118	30	25	39
24....	53	....	....	....	....	64	143	400	116	28	24	35
25....	52	....	....	....	....	49	135	324	105	28	25	35
26....	49	....	....	....	....	50	137	286	103	30	29	41
27....	48	....	....	....	....	48	148	332	99	38	28	48
28....	47	....	....	....	....	36	192	341	89	49	35	39
29....	43	....	....	....	....	35	270	341	84	58	34	37
30....	45	Nov. 1	....	....	....	32	290	341	82	64	29	33
31....	42	to 7	....	....	....	37	....	315	....	80	27	....
Total	1860	267	....	....	....	351	3327	11950	6486	1489	1004	1417
Mean.	60.0	38.1	....	....	....	43.9	111	385	216	48.0	32.4	47.2
Max..	132	43	....	....	....	64	290	516	461	80	54	120
Min...	35	28	....	....	....	32	50	266	82	28	24	20
Acre-ft.	3690	530	....	....	....	696	6600	23700	12860	2950	1990	2810

Total run-off for period—55,826 acre-feet.

Discharge of Alamosa River Above Terrace Reservoir for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	31	20	....	....	....	....	43	82	332	82	26	24
2....	30	21	....	....	....	....	41	132	302	72	23	22
3....	28	20	....	....	....	....	36	251	270	63	22	23
4....	27	20	....	....	....	....	34	358	251	58	20	22
5....	25	21	....	....	....	....	35	358	232	57	21	22
6....	25	22	....	....	....	....	33	345	214	63	25	19
7....	25	....	....	....	....	....	32	345	200	53	28	19
8....	28	....	....	....	....	....	32	311	186	49	25	22
9....	28	....	....	....	....	....	33	274	159	45	22	18
10....	28	....	....	....	....	....	35	332	135	45	20	18
11....	28	....	....	....	....	....	34	311	127	43	20	20
12....	28	....	....	....	....	....	36	319	123	42	18	18
13....	28	....	....	....	....	....	45	372	123	43	16	25
14....	28	....	....	....	....	....	72	372	127	42	16	30
15....	25	....	....	....	....	....	103	410	125	39	16	25
16....	25	....	....	....	....	Mar. 18	91	420	114	41	16	21
17....	24	....	....	....	....	to 31	75	386	109	36	17	20
18....	24	....	....	....	....	18	69	324	107	36	16	49
19....	24	....	....	....	....	20	86	278	99	32	18	62
20....	22	....	....	....	....	24	114	290	95	32	38	49
21....	21	....	....	....	....	29	156	258	95	33	40	42
22....	21	....	....	....	....	34	183	251	89	32	33	38
23....	20	....	....	....	....	41	232	282	86	28	32	40
24....	20	....	....	....	....	48	251	306	86	34	40	38
25....	21	....	....	....	....	60	235	294	91	28	42	36
26....	23	....	....	....	....	70	251	328	86	28	34	36
27....	16	....	....	....	....	75	251	358	82	42	34	42
28....	17	....	....	....	....	64	132	368	77	34	29	37
29....	20	....	....	....	....	49	101	363	80	32	28	37
30....	18	Nov. 1	....	....	....	42	84	358	103	33	28	40
31....	20	to 6	....	....	....	43	....	358	....	32	25	....
Total	748	124	....	....	....	617	2955	9794	4305	1329	788	914
Mean.	24.1	20.7	....	....	....	44.1	98.5	316	144	42.9	25.4	30.5
Max..	31	22	....	....	....	75	251	420	332	82	42	62
Min...	16	20	....	....	....	18	32	82	77	28	16	18
Acre-ft.	1480	246	....	....	....	1220	5860	19430	8540	2640	1560	1810

Total run-off for period—42,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Alamosa Creek Below Terrace Reservoir, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	43	54	....	....	....	10	41	284	320	110	83	63
2....	43	61	....	....	....	10	41	316	320	110	68	63
3....	40	61	....	....	....	10	41	351	320	110	58	61
4....	32	61	....	....	....	10	41	344	320	112	63	55
5....	33	61	....	....	....	10	41	344	380	112	64	52
6....	34	61	....	....	....	10	41	369	403	110	63	44
7....	37	58	....	....	....	10	41	399	362	110	64	30
8....	35	35	....	....	....	10	41	399	313	102	69	24
9....	35	21	....	....	....	10	54	395	300	98	71	31
10....	35	14	....	....	....	10	68	442	300	98	71	39
11....	37	14	....	....	....	10	68	527	300	96	64	43
12....	37	14	....	....	....	10	96	570	300	94	60	60
13....	37	14	....	....	....	10	128	560	300	94	60	74
14....	37	15	....	....	....	10	126	430	296	90	54	72
15....	39	21	....	....	....	10	119	365	284	90	54	106
16....	39	29	....	....	....	10	112	347	258	79	54	140
17....	40	29	....	....	....	10	114	320	222	78	55	137
18....	40	28	....	....	....	10	117	320	207	78	60	137
19....	40	28	....	....	....	10	112	320	191	76	61	98
20....	40	19	....	....	....	10	112	406	180	74	61	72
21....	40	13	....	....	....	10	112	472	159	74	61	69
22....	41	13	....	....	....	10	114	472	152	64	61	34
23....	41	13	....	....	....	10	140	467	135	57	60	40
24....	41	12	....	....	....	10	154	463	126	55	61	52
25....	41	10	....	....	....	11	154	369	124	54	64	50
26....	41	10	....	....	....	12	154	320	119	54	66	49
27....	41	10	....	....	....	10	154	320	119	54	63	50
28....	41	10	....	....	....	24	154	320	117	55	64	52
29....	41	10	....	....	....	40	199	320	117	55	64	52
30....	43	10	....	....	....	40	255	320	119	61	64	50
31....	43	....	....	....	....	41	....	320	....	78	63	....
Total	1207	809	310	310	280	418	3144	11971	7163	2582	1948	1899
Mean.	39.0	27.0	10	10	10	13.5	105	386	239	83.3	62.8	63.3
Max..	43	61	....	....	....	41	255	570	403	112	83	140
Min...	32	10	....	....	....	10	41	284	117	54	54	24
Acre-ft.	2390	1600	615	615	555	829	6240	23740	14210	5120	3860	3770

Total run-off for water year 1938-39=63,540 acre-feet.

Discharge of Alamosa River Below Terrace Reservoir, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	20	17	4	4	4	64	121	347	79	39	29
2....	45	20	17	4	4	4	63	110	326	81	39	25
3....	45	20	15	4	4	4	63	142	293	78	39	25
4....	44	20	17	4	4	4	61	252	262	64	39	26
5....	41	20	17	4	4	4	61	354	255	66	43	26
6....	38	20	17	4	4	4	52	376	237	69	45	25
7....	37	20	17	4	4	4	46	340	210	58	45	20
8....	37	20	17	4	4	4	38	320	199	58	48	17
9....	37	19	17	4	4	4	30	316	199	61	45	18
10....	33	19	17	4	4	4	30	313	172	58	34	19
11....	30	17	17	4	4	4	30	313	142	54	20	19
12....	29	17	15	4	4	4	31	313	133	53	20	19
13....	28	17	10	4	4	4	32	313	149	50	20	20
14....	28	17	3	4	4	4	33	340	157	50	20	25
15....	28	17	3	4	4	4	33	362	152	54	20	32
16....	28	16	3	4	4	4	46	387	133	57	19	32
17....	28	15	3	4	4	4	64	403	128	57	17	31
18....	29	13	3	4	4	6	66	337	128	50	18	32
19....	29	13	3	4	4	20	85	287	128	48	18	39
20....	29	13	3	4	4	23	106	287	140	48	25	60
21....	28	13	3	4	4	30	117	287	145	49	46	72
22....	29	14	3	4	4	32	175	240	126	49	55	61
23....	29	14	3	4	4	39	243	219	112	49	53	52
24....	29	14	3	4	4	39	277	255	102	49	53	52
25....	28	14	3	4	4	52	277	287	90	60	52	50
26....	25	15	3	4	4	64	274	287	88	60	52	50
27....	22	17	3	4	4	64	296	287	87	50	52	50
28....	21	17	3	4	4	64	306	290	78	46	40	46
29....	18	17	3	4	4	64	191	337	69	45	20	43
30....	18	17	3	4	....	64	137	347	68	45	40	43
31....	20	....	3	4	....	63	....	347	....	43	37	....
Total	958	505	264	124	116	692	3327	9169	4855	1738	1113	1058
Mean.	30.9	16.8	8.5	4	4	22.3	111	296	162	56.1	35.9	35.3
Max..	48	20	17	4	4	64	306	403	347	81	55	72
Min...	18	13	3	4	4	4	30	110	68	43	17	17
Acre-ft.	1900	1000	524	246	230	1370	6600	18190	9630	3450	2210	2100

Total run-off for water year 1939-40=47,450 acre feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Jara Creek (Gallegos Ranch) Near Capulin, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.9	10	....	....	....	....	48	53	14	35	9.5	8.8
2....	9.2	10	....	....	....	....	65	60	13	33	10	8.2
3....	9.8	10	....	....	....	....	70	45	13	33	10	7.6
4....	9.5	....	....	....	....	....	72	44	13	32	9.2	7.6
5....	9.8	....	....	....	....	....	60	40	12	32	8.5	7.6
6....	9.8	....	....	....	....	....	60	38	12	33	9.5	8.2
7....	13	....	....	....	....	....	50	32	12	33	12	7.9
8....	26	....	....	....	....	....	53	30	12	34	10	7.9
9....	16	....	....	....	....	....	78	28	12	33	14	7.6
10....	13	....	....	....	....	....	55	29	11	33	16	8.5
11....	11	....	....	....	....	....	34	26	11	44	16	7.9
12....	11	....	....	....	....	....	38	25	10	44	16	7.6
13....	11	....	....	....	....	....	52	24	10	45	17	7.6
14....	11	....	....	....	....	....	66	23	10	51	17	7.9
15....	11	....	....	....	....	....	33	23	9.8	52	19	8.5
16....	11	....	....	....	....	....	26	22	9.8	39	19	8.2
17....	11	....	....	....	....	....	21	22	9.8	16	18	8.2
18....	11	....	....	....	....	....	24	19	9.5	33	18	7.6
19....	11	....	....	....	....	....	32	17	9.8	32	17	6.9
20....	11	....	....	....	....	....	38	16	10	32	16	6.9
21....	11	....	....	....	....	....	51	15	20	32	10	6.9
22....	11	....	....	....	....	....	55	14	27	34	9.5	6.6
23....	11	....	....	....	....	Mar. 25	62	14	34	35	8.5	6.9
24....	11	....	....	....	....	to 31	47	14	35	31	8.5	6.9
25....	11	....	....	....	....	39	43	14	35	30	8.2	6.9
26....	10	....	....	....	....	54	46	14	35	32	8.2	7.6
27....	10	....	....	....	....	51	43	14	35	32	8.2	7.9
28....	10	....	....	....	....	30	48	14	35	29	8.5	7.6
29....	10	....	....	....	....	23	57	14	35	30	8.2	7.6
30....	10	Nov. 1	....	....	....	22	55	14	35	14	7.9	7.6
31....	10	to 3	....	....	....	24	....	14	....	10	8.5	....
Total	350.0	30	....	....	....	243	1482	771	549.7	1028	375.9	229.7
Mean.	11.3	10	....	....	....	34.7	49.4	24.9	18.3	33.2	12.1	7.66
Max..	26	10	....	....	....	54	78	60	35	52	19	8.8
Min...	8 9	10	....	....	....	22	21	14	9.5	10	7.9	6.6
Acre-ft.	694	60	....	....	....	482	2940	1530	1090	2040	746	456

Total run-off for period=10,038 acre-feet.

Discharge of La Jara Creek at Gallegos Ranch Near Capulin, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.6	8.5	....	....	....	....	18	18	10	14	5.0	6.6
2....	7.9	8.2	....	....	....	....	14	18	9.8	14	5.2	6.6
3....	7.9	8.2	....	....	....	....	15	18	9.5	14	5.0	6.6
4....	7.9	8.5	....	....	....	....	16	16	9.2	14	4.7	6.3
5....	7.6	8.5	....	....	....	....	15	15	9.2	14	5.5	6.1
6....	7.9	8.8	....	....	....	....	16	14	8.8	9.2	6.6	6.1
7....	7.9	7.9	....	....	....	....	16	15	8.8	6.1	7.2	5.8
8....	8.5	8.2	....	....	....	....	15	10	8.8	6.1	12	6.1
9....	8.2	8.8	....	....	....	....	15	9.2	8.5	6.6	6.9	6.1
10....	7.9	....	....	....	....	....	16	8.5	8.5	6.3	6.9	6.6
11....	7.6	....	....	....	....	....	15	9.2	8.5	6.3	7.2	6.9
12....	7.2	....	....	....	....	....	15	9.5	8.5	5.8	6.9	7.6
13....	7.2	....	....	....	....	....	15	9.8	8.5	6.1	6.3	8.2
14....	7.2	....	....	....	....	....	19	10	8.5	5.8	5.5	7.2
15....	7.2	....	....	....	....	....	25	8.5	8.2	5.8	4.7	7.2
16....	6.9	....	....	....	....	....	22	7.9	8.2	15	5.0	6.9
17....	6.9	....	....	....	....	....	20	9.2	8.8	16	5.2	7.2
18....	6.9	....	....	....	....	....	23	17	8.5	15	4.4	8.2
19....	6.9	....	....	....	....	....	24	22	8.8	7.6	4.7	7.6
20....	6.9	....	....	....	....	....	23	16	8.5	6.3	6.3	7.6
21....	6.6	....	....	....	....	....	27	15	8.5	6.1	7.2	7.2
22....	6.6	....	....	....	....	....	26	18	8.8	6.3	5.8	7.2
23....	6.9	....	....	....	....	....	26	37	8.8	5.2	5.8	7.2
24....	7.2	....	....	....	....	Mar. 26	24	34	9.2	5.0	8.5	6.9
25....	7.2	....	....	....	....	to 31	21	24	9.2	4.7	6.9	6.9
26....	8.5	....	....	....	....	14	19	20	13	4.7	7.6	6.6
27....	8.2	....	....	....	....	19	21	17	14	6.1	9.2	6.9
28....	7.9	....	....	....	....	15	20	14	14	5.0	9.8	6.6
29....	8.2	....	....	....	....	15	20	13	15	5.0	11	6.6
30....	7.9	Nov. 1	....	....	....	15	20	12	14	6.1	8.5	7.6
31....	8.2	to 9	....	....	....	18	....	11	....	6.1	6.3	....
Total	233.6	75.6	....	....	....	96	581	475.8	290.6	254.3	207.8	207.2
Mean.	7.54	8.40	....	....	....	16.0	19.4	15.3	9.69	8.20	6.70	6.91
Max..	8.5	8.8	....	....	....	19	27	37	15	16	12	8.2
Min...	6.6	7.9	....	....	....	14	14	7.9	8.2	4.7	4.4	5.8
Acre-ft.	463	150	....	....	....	190	1150	944	576	504	412	411

Total run-off for period=4,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Above Turner Ranch Near Ft. Garland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	13	....	....	....	....	13	63	72	30	18	9.6
2....	14	14	....	....	....	....	15	67	72	27	18	8.9
3....	14	....	....	....	....	....	17	70	74	27	17	8.2
4....	14	....	....	....	....	....	18	72	74	27	15	7.5
5....	15	....	....	....	....	....	18	67	77	25	15	6.1
6....	14	....	....	....	....	....	18	70	77	25	15	6.8
7....	16	....	....	....	....	....	20	70	77	24	17	7.5
8....	22	....	....	....	....	....	17	67	74	24	16	9.6
9....	18	....	....	....	....	....	19	70	70	24	14	9.6
10....	17	....	....	....	....	....	20	74	67	21	14	9.6
11....	16	....	....	....	....	....	25	74	70	20	14	9.6
12....	16	....	....	....	....	....	19	77	65	19	13	8.9
13....	16	....	....	....	....	....	21	74	65	18	14	10
14....	16	....	....	....	....	....	26	72	63	18	13	13
15....	16	....	....	....	....	....	25	72	59	19	12	17
16....	16	....	....	....	....	....	22	70	57	18	12	22
17....	16	....	....	....	....	....	24	70	53	16	12	16
18....	15	....	....	....	....	....	21	67	51	18	11	15
19....	15	....	....	....	....	....	20	72	49	17	11	14
20....	15	....	....	....	....	....	24	74	46	17	12	13
21....	14	....	....	....	....	....	28	77	42	17	13	13
22....	14	....	....	....	....	....	38	77	40	16	11	13
23....	15	....	....	....	....	....	44	77	40	16	10	13
24....	14	....	....	....	....	....	44	77	36	16	10	12
25....	14	....	....	....	....	....	42	77	35	16	11	13
26....	15	....	....	....	....	....	42	77	35	16	13	13
27....	14	....	....	....	....	....	46	74	35	18	14	12
28....	13	....	....	....	....	....	49	70	34	19	13	11
29....	13	....	....	....	....	....	55	67	34	17	11	11
30....	13	Nov. 1	....	....	....	Mar. 31	59	70	34	26	10	11
31....	13	to 2	....	....	....	11	....	70	....	31	9.6	....
Total	467	27	....	....	....	11	849	2225	1677	642	408.6	343.9
Mean.	15.1	13.5	....	....	....	11	28.3	71.8	55.9	20.7	13.2	11.5
Max..	22	14	....	....	....	11	59	77	77	31	18	22
Min...	13	13	....	....	....	11	13	63	34	16	9.6	6.1
Acre-ft.	926	54	....	....	....	22	1680	4410	3330	1270	810	682

Total run-off for period=13,184 acre-feet.

Discharge of Trinchera Creek Above Turner Ranch, Near Ft. Garland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	....	....	....	....	....	15	33	80	29	15	11
2....	11	....	....	....	....	....	16	36	80	27	14	12
3....	11	....	....	....	....	....	16	47	78	26	14	12
4....	11	....	....	....	....	....	14	58	75	29	14	11
5....	11	....	....	....	....	....	15	56	73	30	14	11
6....	11	....	....	....	....	....	14	58	68	25	20	11
7....	11	....	....	....	....	....	13	63	66	24	27	12
8....	13	....	....	....	....	....	12	68	66	23	18	11
9....	12	....	....	....	....	....	12	63	65	22	16	11
10....	10	....	....	....	....	....	12	66	63	22	15	13
11....	10	....	....	....	....	....	14	70	60	21	16	14
12....	10	....	....	....	....	....	14	66	54	20	15	12
13....	10	....	....	....	....	....	15	68	51	21	14	11
14....	11	....	....	....	....	....	20	75	48	20	14	11
15....	11	....	....	....	....	....	22	80	47	20	14	11
16....	11	....	....	....	....	....	20	85	47	19	14	11
17....	10	....	....	....	....	....	20	92	43	19	15	12
18....	10	....	....	....	....	....	20	92	41	19	16	13
19....	10	....	....	....	....	....	22	90	40	18	16	14
20....	10	....	....	....	....	....	26	82	38	19	17	11
21....	10	....	....	....	....	....	30	80	38	23	15	13
22....	10	....	....	....	....	....	32	75	37	20	14	14
23....	10	....	....	....	....	....	33	73	36	18	15	14
24....	9.6	....	....	....	....	....	35	70	35	18	17	13
25....	9.6	....	....	....	....	....	36	73	35	17	14	13
26....	10	....	....	....	....	....	41	73	35	18	14	13
27....	9.6	....	....	....	....	....	48	70	32	17	14	12
28....	8.9	....	....	....	....	....	44	73	31	16	14	12
29....	9.6	....	....	....	....	....	38	75	31	16	13	12
30....	10	....	....	....	....	....	33	78	31	15	12	13
31....	9.6	....	....	....	....	14	....	80	....	16	11	....
Total	321.9	....	....	....	....	....	702	2168	1524	647	471	364
Mean.	10.4	....	....	....	....	....	23.4	69.9	50.8	20.9	15.2	12.1
Max..	13	....	....	....	....	....	48	92	80	30	27	14
Min...	8.9	....	....	....	....	....	12	33	31	15	11	11
Acre-ft.	638	....	....	....	....	....	1390	4300	3020	1280	934	722

Total run-off for period=12,280 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Above Mountain Home Reservoir Near Ft. Garland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	10	....	....	....	....	14	59	41	12	26	7.9
2....	10	10	....	....	....	....	15	63	40	13	17	7.9
3....	10	10	....	....	....	....	17	64	40	12	16	7.4
4....	10	....	....	....	....	....	20	70	46	12	15	6.9
5....	10	....	....	....	....	....	17	68	45	13	13	6.4
6....	10	....	....	....	....	....	17	65	46	14	9.9	6.4
7....	12	....	....	....	....	....	17	65	44	14	10	5.6
8....	17	....	....	....	....	....	17	64	41	15	9.9	7.4
9....	14	....	....	....	....	....	19	52	42	15	8.4	6.9
10....	13	....	....	....	....	....	20	50	40	14	8.4	8.4
11....	12	....	....	....	....	....	18	48	39	13	8.9	8.4
12....	12	....	....	....	....	....	20	55	37	9.9	8.4	8.4
13....	12	....	....	....	....	....	20	50	37	8.9	8.4	8.9
14....	11	....	....	....	....	....	23	48	33	8.9	9.4	14
15....	11	....	....	....	....	....	24	46	30	10	8.9	14
16....	11	....	....	....	....	....	23	42	28	9.9	8.9	20
17....	11	....	....	....	....	....	20	41	24	8.9	8.9	14
18....	10	....	....	....	....	....	17	41	22	8.4	8.9	11
19....	10	....	....	....	....	....	19	44	20	8.9	8.9	11
20....	10	....	....	....	....	....	20	51	17	9.4	8.4	10
21....	10	....	....	....	....	....	23	55	16	9.4	9.4	10
22....	10	....	....	....	....	....	30	56	15	8.9	7.9	10
23....	9.6	....	....	....	....	....	37	55	16	9.9	7.9	9.4
24....	9.6	....	....	....	....	....	38	50	17	8.9	7.4	9.4
25....	12	....	....	....	....	....	35	53	16	8.9	7.9	9.4
26....	12	....	....	....	....	....	35	54	15	8.9	9.4	9.4
27....	11	....	....	....	....	Mar. 29	38	47	14	9.4	8.9	8.9
28....	10	....	....	....	....	to 31	44	42	13	11	9.4	9.4
29....	10	....	....	....	....	14	50	38	14	11	9.4	8.4
30....	10	Nov. 1	....	....	....	14	53	37	13	23	8.4	7.4
31....	10	to 3	....	....	....	13	....	38	....	29	7.9	....
Total	341.2	30	....	....	....	41	760	1611	861	368.5	315.5	282.6
Mean.	11.0	10	....	....	....	13.7	25.3	52.0	28.7	11.9	10.2	9.42
Max..	17	10	....	....	....	14	53	70	46	29	26	20
Min...	9.6	10	....	....	....	13	14	37	13	8.4	7.4	5.6
Acre-ft.	677	60	....	....	....	81	1510	3200	1710	731	626	561

Total run-off for period=9,156 acre-feet.

Discharge of Trinchera Creek Above Mountain Home Reservoir Near Fort Garland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.4	....	....	....	....	....	13	8.8	48	24	11	9.7
2....	6.0	....	....	....	....	....	14	9.7	46	24	10	11
3....	6.4	....	....	....	....	....	13	11	45	23	9.7	11
4....	7.4	....	....	....	....	....	13	18	41	25	8.8	10
5....	6.0	....	....	....	....	....	13	21	39	29	8.8	9.2
6....	6.0	....	....	....	....	....	14	20	36	26	11	8.8
7....	6.9	....	....	....	....	....	13	20	35	23	24	9.7
8....	7.4	....	....	....	....	....	12	24	34	20	15	8.3
9....	8.4	....	....	....	....	....	12	23	33	18	13	7.4
10....	7.9	....	....	....	....	....	12	25	32	16	12	7.8
11....	6.4	....	....	....	....	....	12	27	31	14	12	9.2
12....	7.4	....	....	....	....	....	12	28	28	13	12	7.8
13....	8.4	....	....	....	....	....	13	31	27	13	11	6.7
14....	9.4	....	....	....	....	....	16	32	27	13	9.2	6.3
15....	8.9	....	....	....	....	....	20	33	33	12	8.3	7.0
16....	6.9	....	....	....	....	....	19	37	37	12	7.8	7.0
17....	6.9	....	....	....	....	....	18	42	33	11	9.2	6.7
18....	7.4	....	....	....	....	....	16	46	32	11	8.3	7.4
19....	7.4	....	....	....	....	....	18	40	31	12	12	8.3
20....	7.9	....	....	....	....	....	23	38	37	12	9.7	7.4
21....	7.9	....	....	....	....	....	29	39	36	17	10	7.4
22....	7.9	....	....	....	....	....	32	39	36	16	10	8.3
23....	8.4	....	....	....	....	....	32	37	33	13	12	7.8
24....	8.4	....	....	....	....	....	32	35	31	13	14	7.0
25....	7.9	....	....	....	....	....	29	38	28	12	13	7.0
26....	8.4	....	....	....	....	....	16	40	28	12	12	7.4
27....	8.4	....	....	....	....	....	18	37	27	13	12	6.3
28....	7.4	....	....	....	....	....	15	40	26	12	11	5.9
29....	5.6	....	....	....	....	....	12	42	27	12	11	7.0
30....	5.2	....	....	....	....	....	9.7	42	26	12	10	6.3
31....	5.6	....	....	....	....	12	....	46	....	12	10	....
Total	227.9	....	....	....	....	....	520.7	969.5	1003	495	347.8	237.1
Mean.	7.35	....	....	....	....	....	17.4	31.3	33.4	16.0	11.2	7.90
Max..	9.4	....	....	....	....	....	32	46	48	29	24	11
Min...	5.2	....	....	....	....	....	9.7	8.8	26	11	7.8	5.9
Acre-ft.	452	....	....	....	....	....	1030	1920	1990	982	690	470

Total run-off for period=7,530 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Below Smith Reservoir Near Blanca, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.6	0.6	....	....	....	....	78	128	18	2.2	3.2	0.4
2....	0.6	0.6	....	....	....	....	80	120	18	2.0	2.6	0.6
3....	0.5	....	....	....	....	....	88	119	18	2.2	2.4	0.6
4....	0.5	....	....	....	....	....	103	117	18	2.5	2.5	0.6
5....	0.7	....	....	....	....	....	117	109	18	2.5	2.8	0.6
6....	0.6	....	....	....	....	....	123	100	16	2.4	2.8	0.5
7....	0.8	....	....	....	....	....	103	96	14	2.0	2.4	0.3
8....	1.1	....	....	....	....	....	104	92	17	6.0	1.9	0.6
9....	0.9	....	....	....	....	....	100	77	5.1	7.6	3.6	0.9
10....	0.7	....	....	....	....	....	108	68	2.6	7.0	3.4	0.9
11....	0.8	....	....	....	....	....	109	63	2.6	6.8	3.2	0.6
12....	0.9	....	....	....	....	....	107	73	2.6	6.8	3.8	0.8
13....	0.9	....	....	....	....	....	106	63	2.6	8.3	3.2	1.0
14....	0.9	....	....	....	....	....	116	55	6.0	14	2.6	0.5
15....	0.9	....	....	....	....	Mar. 17	130	48	6.0	15	2.2	0.9
16....	0.9	....	....	....	....	to 31	129	36	6.0	14	2.6	1.0
17....	0.9	....	....	....	....	40	115	27	6.2	12	1.4	0.9
18....	0.9	....	....	....	....	49	110	19	6.4	12	0.9	0.8
19....	0.9	....	....	....	....	57	101	13	6.4	11	0.8	0.8
20....	0.9	....	....	....	....	69	97	11	6.2	11	0.8	0.6
21....	0.9	....	....	....	....	80	88	11	6.2	5.8	0.6	0.6
22....	0.9	....	....	....	....	84	91	8.3	6.2	3.6	0.9	0.8
23....	0.9	....	....	....	....	98	104	4.1	6.6	3.4	0.4	0.8
24....	0.9	....	....	....	....	112	120	1.9	6.8	4.3	0.4	0.8
25....	0.9	....	....	....	....	119	119	1.3	6.6	4.5	0.6	0.8
26....	0.9	....	....	....	....	112	116	1.2	6.4	4.3	0.9	0.8
27....	0.9	....	....	....	....	110	115	1.1	6.4	3.4	0.9	0.8
28....	0.5	....	....	....	....	107	112	0.9	3.8	3.4	0.8	0.6
29....	0.6	....	....	....	....	99	114	0.9	2.5	3.9	0.5	0.8
30....	0.6	Nov. 1	....	....	....	92	124	4.9	1.6	3.6	0.4	0.9
31....	0.6	to 2	....	....	....	82	....	18	....	3.4	0.4	....
Total	24.5	1.2	....	....	....	1310	3227	1487.6	248.8	190.9	55.9	21.6
Mean.	0.79	0.6	....	....	....	87.3	108	48.0	8.29	6.16	1.80	0.72
Max..	1.1	0.6	....	....	....	119	130	128	18	15	3.8	1.0
Min...	0.5	0.6	....	....	....	40	78	0.9	1.6	2.0	0.4	0.3
Acre-ft.	49	2	....	....	....	2600	6400	2950	493	379	111	43

Total run-off for period=13,027 acre-feet.

Discharge of Trinchera Creek Below Smith Reservoir Near Blanca, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.9	....	....	....	....	....	0.8	29	10	5.3	1.0	0.8
2....	0.8	....	....	....	....	....	0.8	28	7.8	4.4	0.9	0.8
3....	0.8	....	....	....	....	....	0.9	21	7.6	2.8	0.9	0.8
4....	0.8	....	....	....	....	....	0.8	17	7.3	2.8	1.0	0.7
5....	0.8	....	....	....	....	....	0.8	20	7.3	3.3	0.9	0.7
6....	0.8	....	....	....	....	....	0.9	20	6.0	3.5	1.0	0.7
7....	0.8	....	....	....	....	....	0.9	20	4.6	3.3	1.1	0.7
8....	0.9	....	....	....	....	....	0.8	22	4.6	3.3	0.9	0.6
9....	0.9	....	....	....	....	....	0.7	22	4.8	3.5	0.8	0.5
10....	0.9	....	....	....	....	....	0.7	22	5.1	3.5	0.9	0.6
11....	0.9	....	....	....	....	....	0.7	24	2.8	3.3	0.8	0.6
12....	0.6	....	....	....	....	....	0.7	21	3.1	1.6	0.8	0.6
13....	0.6	....	....	....	....	....	0.8	21	8.1	1.5	0.8	0.6
14....	0.6	....	....	....	....	....	0.7	20	8.1	1.5	0.8	0.6
15....	0.6	....	....	....	....	....	0.7	18	8.4	1.3	0.7	0.6
16....	0.6	....	....	....	....	....	0.7	16	8.7	1.4	0.8	0.6
17....	0.6	....	....	....	....	....	0.8	12	8.4	1.5	0.8	0.6
18....	0.5	....	....	....	....	....	0.7	13	8.1	1.5	1.0	0.7
19....	0.4	....	....	....	....	....	0.7	13	8.4	1.5	1.2	0.6
20....	0.3	....	....	....	....	....	0.8	14	8.7	1.8	1.2	0.6
21....	0.4	....	....	....	....	....	0.8	18	8.1	1.6	1.1	0.7
22....	0.4	....	....	....	....	....	3.1	18	8.1	1.5	1.0	0.7
23....	0.4	....	....	....	....	....	10	17	7.6	1.5	1.1	0.7
24....	0.4	....	....	....	....	....	12	17	5.8	1.5	1.2	0.7
25....	0.5	....	....	....	....	....	13	16	5.3	1.3	1.0	0.7
26....	0.4	....	....	....	....	....	13	15	5.5	1.3	0.9	0.7
27....	0.4	....	....	....	....	....	10	14	5.5	1.4	0.9	0.7
28....	0.5	....	....	....	....	....	11	13	5.8	1.1	0.9	0.8
29....	0.6	....	....	....	....	....	11	13	6.8	0.9	0.8	0.8
30....	0.5	....	....	....	....	....	20	14	5.3	0.9	0.8	0.8
31....	0.6	....	....	....	....	0.8	....	14	....	1.1	0.8	....
Total	19.2	....	....	....	....	....	119.3	562	201.7	66.7	28.8	20.3
Mean.	0.62	....	....	....	....	....	3.98	18.1	6.72	2.15	0.93	0.68
Max..	0.9	....	....	....	....	....	20	29	10	5.3	1.2	0.8
Min...	0.3	....	....	....	....	....	0.7	12	2.8	0.9	0.7	0.5
Acre-ft.	38	....	....	....	....	....	237	1110	400	132	57	40

Total run-off for period=2,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Sangre de Cristo Creek Near Ft. Garland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.0	8.4	....	....	....	....	56	172	52	11	9.8	0
2....	4.0	9.1	....	....	....	....	78	168	48	11	10	0
3....	4.2	....	....	....	....	....	89	174	44	9.8	8.1	0
4....	4.4	....	....	....	....	....	107	167	41	9.5	8.1	0
5....	4.8	....	....	....	....	....	85	160	41	8.8	7.2	0
6....	5.0	....	....	....	....	....	82	153	37	7.8	6.6	0
7....	7.4	....	....	....	....	....	80	136	37	6.9	7.2	0
8....	20	....	....	....	....	....	73	123	35	6.9	15	0
9....	24	....	....	....	....	....	82	114	34	8.8	10	0.6
10....	16	....	....	....	....	....	90	107	30	8.1	6.6	1.1
11....	14	....	....	....	....	....	77	104	29	6.6	4.9	1.5
12....	12	....	....	....	....	....	82	130	27	5.4	3.9	1.1
13....	11	....	....	....	....	....	84	127	26	4.2	3.6	2.5
14....	10	....	....	....	....	....	98	109	24	3.4	3.6	6.3
15....	9.8	....	....	....	....	....	105	100	23	3.9	2.9	5.2
16....	8.8	....	....	....	....	....	89	95	20	4.4	2.7	8.4
17....	8.0	....	....	....	....	....	76	91	19	3.9	2.4	7.5
18....	7.4	....	....	....	....	....	74	89	18	2.9	2.0	5.4
19....	7.0	....	....	....	....	....	72	82	13	2.9	1.5	4.4
20....	7.4	....	....	....	....	....	77	77	18	2.5	1.3	3.9
21....	7.4	....	....	....	....	....	88	73	17	2.0	2.7	3.2
22....	8.0	....	....	....	....	....	111	70	16	1.5	3.2	2.7
23....	7.7	....	....	....	....	....	125	66	16	0.9	1.8	2.5
24....	8.4	....	....	....	....	....	121	63	18	.7	1.5	2.4
25....	9.1	....	....	....	....	....	119	65	14	.4	1.3	2.5
26....	9.1	....	....	....	....	....	120	82	12	.8	1.5	2.5
27....	8.0	....	....	....	....	Mar. 29	120	82	12	2.9	2.7	3.2
28....	8.4	....	....	....	....	to 31	140	66	12	4.2	2.4	2.7
29....	8.4	....	....	....	....	49	158	60	12	5.4	2.2	2.7
30....	8.8	Nov. 1	....	....	....	42	166	55	13	6.0	1.5	2.9
31....	8.8	to 2	....	....	....	43	....	53	....	16	0.8	....
Total	281.3	17.5	....	....	....	134	2924	3213	758	169.5	139.0	75.2
Mean.	9.07	8.75	....	....	....	44.7	97.5	104	25.3	5.47	4.48	2.51
Max..	24	9.1	....	....	....	49	166	174	52	16	15	8.4
Min...	4.0	8.4	....	....	....	42	56	53	12	0.4	0.8	0
Acre-ft.	558	35	....	....	....	266	5800	6370	1500	336	276	149

Total run-off for period=15,290 acre-feet.

Discharge of Sangre de Cristo Creek Near Fort Garland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.9	....	....	....	....	....	42	41	27	3.6	0.2	0
2....	2.7	....	....	....	....	....	45	39	25	3.4	0.4	0
3....	2.6	....	....	....	....	....	37	39	24	3.4	0	0
4....	2.3	....	....	....	....	....	36	41	23	3.6	0	0
5....	2.3	....	....	....	....	....	35	41	22	7.2	0	0
6....	2.4	....	....	....	....	....	34	41	21	6.6	0	0
7....	2.6	....	....	....	....	....	32	39	20	4.4	6.6	0
8....	3.4	....	....	....	....	....	27	43	18	6.0	5.2	0
9....	4.4	....	....	....	....	....	26	50	16	3.9	2.7	0
10....	4.6	....	....	....	....	....	25	43	16	2.7	1.5	0
11....	4.6	....	....	....	....	....	24	38	16	2.1	1.0	0
12....	4.4	....	....	....	....	....	21	40	14	2.4	0.7	0
13....	4.2	....	....	....	....	....	27	39	14	2.4	0.5	0
14....	5.2	....	....	....	....	....	29	37	13	5.2	0	0
15....	4.9	....	....	....	....	....	35	35	11	3.4	0	0
16....	4.9	....	....	....	....	....	37	34	11	2.9	0	0
17....	5.2	....	....	....	....	....	27	38	11	2.4	0	0
18....	5.2	....	....	....	....	....	36	61	8.8	2.1	0	0
19....	5.4	....	....	....	....	....	43	59	8.4	1.9	0.7	0
20....	5.4	....	....	....	....	....	49	45	7.5	2.1	2.3	0.2
21....	5.4	....	....	....	....	....	64	44	6.9	2.1	3.2	0.5
22....	4.9	....	....	....	....	....	71	55	7.8	2.1	2.4	0.2
23....	4.4	....	....	....	....	....	64	52	8.1	1.8	2.7	0.7
24....	4.6	....	....	....	....	....	60	48	6.9	1.1	3.4	0.6
25....	4.6	....	....	....	....	....	60	46	6.0	0.7	2.7	1.0
26....	4.9	....	....	....	....	....	59	51	5.2	0.7	2.1	1.8
27....	5.7	....	....	....	....	....	60	44	4.9	0.8	1.2	1.5
28....	5.5	....	....	....	....	....	55	38	3.9	0.5	0.6	1.2
29....	5.0	....	....	....	....	....	54	36	4.2	0.1	0.2	1.1
30....	5.0	....	....	....	....	....	49	33	3.9	0	0	2.6
31....	5.0	....	....	....	....	....	....	29	....	0	0	....
Total	134.6	....	....	....	....	....	1263	1319	384.5	81.6	40.3	11.4
Mean.	4.34	....	....	....	....	....	42.1	42.5	12.8	2.63	1.30	0.38
Max..	5.7	....	....	....	....	....	71	61	27	7.2	6.6	2.6
Min...	2.3	....	....	....	....	....	21	29	3.9	0	0	0
Acre-ft.	267	....	....	....	....	....	2510	2620	763	162	80	23

Total run-off for period=6,425 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ute Creek at Forks Near Ft. Garland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.5	....	....	....	....	....	18	22	76	18	16	13
2....	9.3	....	....	....	....	....	16	24	70	19	18	12
3....	9.1	....	....	....	....	....	15	33	63	18	16	12
4....	8.7	....	....	....	....	....	16	42	56	20	14	11
5....	8.4	....	....	....	....	....	16	40	55	23	15	9.9
6....	8.4	....	....	....	....	....	14	36	48	19	18	9.6
7....	9.2	....	....	....	....	....	14	40	42	18	21	9.6
8....	12	....	....	....	....	....	14	46	40	16	18	10
9....	12	....	....	....	....	....	14	31	38	16	16	9.6
10....	11	....	....	....	....	....	14	33	34	16	14	12
11....	10	....	....	....	....	....	12	42	32	16	14	13
12....	10	....	....	....	....	....	13	37	30	16	13	12
13....	9.9	....	....	....	....	....	16	44	30	19	12	11
14....	9.9	....	....	....	....	....	20	50	29	19	11	11
15....	10	....	....	....	....	....	23	55	32	17	11	16
16....	10	....	....	....	....	....	21	60	32	16	12	9.9
17....	10	....	....	....	....	....	19	61	29	16	11	12
18....	10	....	....	....	....	....	19	52	28	14	12	14
19....	10	....	....	....	....	....	22	44	26	14	11	20
20....	9.9	....	....	....	....	....	25	40	26	15	11	18
21....	9.9	....	....	....	....	....	27	42	29	19	11	18
22....	9.2	....	....	....	....	....	32	38	33	22	16	24
23....	8.8	....	....	....	....	....	30	36	29	18	29	22
24....	8.8	....	....	....	....	....	32	37	26	16	33	20
25....	8.8	....	....	....	....	....	33	38	24	16	31	20
26....	9.6	....	....	....	....	....	35	44	22	16	22	20
27....	8.5	....	....	....	....	....	35	48	20	16	19	18
28....	7.8	....	....	....	....	....	28	55	21	14	17	16
29....	8.5	....	....	....	....	....	25	61	20	14	16	16
30....	9.0	....	....	....	....	....	23	65	20	17	14	17
31....	9.3	....	....	....	....	....	....	70	....	16	14	....
Total	295.5	....	....	....	....	....	641	1366	1060	529	506	436.6
Mean.	9.53	....	....	....	....	....	21.4	44.1	35.3	17.1	16.3	14.6
Max..	12	....	....	....	....	....	35	70	76	23	33	24
Min...	7.8	....	....	....	....	....	12	22	20	14	11	9.6
Acre-ft.	586	....	....	....	....	....	1270	2710	2100	1050	1000	866

Total run-off for period=9,580 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ute Creek Near Fort Garland, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	11	....	....	....	....	31	85	48	13	16	6.1
2....	12	11	....	....	....	....	36	87	48	12	18	7.0
3....	11	9.8	....	....	....	....	41	85	46	11	20	6.1
4....	15	....	....	....	....	....	43	81	51	9.9	26	4.5
5....	15	....	....	....	....	....	40	71	55	9.2	26	4.2
6....	14	....	....	....	....	....	42	70	47	8.3	26	4.0
7....	20	....	....	....	....	....	37	61	40	7.0	19	3.7
8....	25	....	....	....	....	....	39	60	38	6.6	29	7.9
9....	23	....	....	....	....	....	44	62	36	12	22	7.0
10....	21	....	....	....	....	....	45	68	36	8.8	18	13
11....	19	....	....	....	....	....	41	67	35	6.6	15	15
12....	18	....	....	....	....	....	42	73	32	5.7	12	15
13....	18	....	....	....	....	....	46	63	29	5.2	12	13
14....	18	....	....	....	....	....	52	58	28	6.1	11	14
15....	18	....	....	....	....	....	53	56	25	6.6	7.9	30
16....	19	....	....	....	....	....	48	55	22	7.4	7.4	27
17....	21	....	....	....	....	....	42	49	20	6.1	5.2	23
18....	19	....	....	....	....	....	38	54	18	5.2	4.2	20
19....	18	....	....	....	....	....	40	61	18	5.2	3.7	17
20....	16	....	....	....	....	....	43	62	15	4.2	4.0	15
21....	16	....	....	....	....	....	49	62	14	4.0	4.8	14
22....	15	....	....	....	....	....	61	60	13	4.8	4.2	13
23....	15	....	....	....	....	....	65	57	13	5.2	4.0	11
24....	13	....	....	....	....	....	65	53	15	4.0	3.7	11
25....	14	....	....	....	....	....	63	51	14	3.4	4.0	9.9
26....	13	....	....	....	....	....	62	47	12	3.7	11	9.9
27....	13	....	....	....	....	....	62	42	12	9.9	11	9.2
28....	13	....	....	....	....	Mar. 30	64	42	13	9.2	13	7.0
29....	12	....	....	....	....	to 31	76	46	12	17	8.8	6.1
30....	12	Nov. 1	....	....	....	26	81	45	13	21	7.0	6.1
31....	11	to 3	....	....	....	27	....	46	....	23	7.4	....
Total	500	31.8	....	....	....	53	1492	1879	818	261.3	381.3	349.7
Mean.	16.1	10.6	....	....	....	26.5	49.7	60.6	27.3	8.43	12.3	11.7
Max..	25	11	....	....	....	27	81	87	55	23	29	30
Min...	11	9.8	....	....	....	26	31	42	12	3.4	3.7	3.7
Acre-ft.	992	63	....	....	....	105	2960	3730	1620	518	756	694

Total run-off for period=11,438 acre-feet.

Discharge of Ute Creek Near Ft. Garland, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.0	....	....	....	....	....	17	14	51	12	9.7	7.0
2....	6.6	....	....	....	....	....	17	13	48	12	10	6.5
3....	6.6	....	....	....	....	....	14	16	45	13	9.2	6.2
4....	6.1	....	....	....	....	....	15	21	39	14	8.1	5.8
5....	6.1	....	....	....	....	....	16	24	37	16	7.6	5.1
6....	6.1	....	....	....	....	....	15	23	32	16	12	4.8
7....	5.7	....	....	....	....	....	15	21	28	13	16	4.8
8....	7.9	....	....	....	....	....	15	29	27	12	14	5.1
9....	9.2	....	....	....	....	....	15	24	24	11	12	4.8
10....	8.3	.. .	....	....	....	....	15	22	23	10	10	5.4
11....	7.9	....	....	....	....	....	14	26	22	8.1	9.7	7.0
12....	7.4	....	....	....	....	....	13	27	20	6.2	9.2	6.2
13....	7.4	....	....	....	....	....	16	28	20	8.6	8.1	5.4
14....	7.4	....	....	....	....	....	18	31	17	11	5.4	6.2
15....	7.9	....	....	....	....	....	21	34	17	10	4.4	6.2
16....	7.4	....	....	....	....	....	22	40	19	9.7	2.9	5.4
17....	5.2	....	....	....	....	....	20	61	18	11	5.4	6.5
18....	4.8	....	....	....	....	....	20	55	17	10	5.1	11
19....	5.7	....	....	....	....	....	22	41	16	9.7	7.0	14
20....	5.7	....	....	....	....	....	24	34	16	9.7	7.6	14
21....	5.7	....	....	....	....	....	27	39	20	11	6.2	14
22....	6.1	....	....	....	....	....	28	35	24	17	6.5	20
23....	6.6	....	....	....	....	....	28	31	20	13	21	20
24....	6.6	....	....	....	....	....	28	31	17	11	24	18
25....	6.6	....	....	....	....	....	28	33	15	8.6	24	17
26....	6.6	....	....	....	....	....	28	36	15	8.6	17	18
27....	6.6	....	....	....	....	....	31	34	12	8.6	17	17
28....	5.7	....	....	....	....	....	25	36	12	8.1	15	16
29....	6.1	....	....	....	....	....	23	40	13	7.6	12	15
30....	7.0	....	....	....	....	....	18	41	13	9.2	11	15
31....	7.0	....	....	....	....	16	....	44	....	10	9.2	....
Total	207.0	....	....	....	....	....	608	984	697	335.7	336.3	307.4
Mean.	6.68	....	....	....	....	....	20.3	31.7	23.2	10.8	10.8	10.2
Max..	9.2	....	....	....	....	....	31	61	51	17	24	20
Min...	4.8	....	....	....	....	....	13	13	12	6.2	2.9	4.8
Acre-ft.	411	....	....	....	....	....	1210	1950	1380	666	667	610

Total run-off for period=6,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River at Platoro, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	25	27	....	....	....	....	50	336	438	67	32	15
2....	24	16	....	....	....	....	56	368	463	60	27	14
3....	24	25	....	....	....	....	70	319	509	58	24	11
4....	25	37	....	....	....	....	68	363	573	56	21	10
5....	25	25	....	....	....	....	66	429	524	56	22	11
6....	32	28	....	....	....	....	62	400	377	51	31	19
7....	62	40	....	....	....	....	60	328	314	44	31	22
8....	71	36	....	....	....	....	64	363	328	42	23	51
9....	56	25	....	....	....	....	71	429	319	44	17	67
10....	54	16	....	....	....	....	70	478	332	39	16	53
11....	53	17	....	....	....	....	68	478	314	35	14	148
12....	49	8.0	....	....	....	....	71	395	297	34	11	115
13....	54	8	....	....	....	....	80	350	293	24	11	123
14....	62	15	....	....	....	....	76	372	260	24	10	186
15....	70	19	....	....	....	....	71	350	228	25	9.0	206
16....	105	20	....	....	....	....	71	289	192	25	9.0	140
17....	88	17	....	....	....	....	73	256	166	22	9.5	112
18....	70	14	....	....	....	....	65	386	146	20	10	90
19....	67	15	....	....	....	....	69	509	110	18	9.0	80
20....	67	15	....	....	....	....	80	524	94	18	8.0	67
21....	65	16	....	....	....	....	120	524	94	16	11	58
22....	56	13	....	....	....	....	154	519	102	17	13	51
23....	53	10	....	....	....	....	157	488	107	17	9.5	45
24....	49	7	....	....	....	....	131	414	102	16	9.0	39
25....	45	8	....	....	....	....	134	328	90	14	16	40
26....	42	8	....	....	....	....	146	281	82	14	15	53
27....	39	9	....	....	....	....	189	359	78	20	20	65
28....	36	8	....	....	....	....	236	400	76	30	31	49
29....	31	8	....	....	....	....	302	414	78	40	26	49
30....	31	8	....	....	....	....	319	380	73	58	18	42
31....	30	....	....	....	....	....	....	395	....	51	17	....
Total	1560	518.0	....	....	....	....	3249	12224	7159	1055	530.0	2031
Mean.	50.3	17.3	....	....	....	....	108	394	239	34.0	17.1	67.7
Max..	105	40	....	....	....	....	319	524	573	67	32	206
Min...	24	7	....	....	....	....	50	256	73	14	8.0	10
Acre-ft.	3090	1030	....	....	....	....	6440	24250	14200	2090	1050	4030

Total run-off for period=56,180 acre-feet.

Discharge of Conejos River at Platoro, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	37	18	13	....	....	....	46	90	546	77	18	27
2....	35	19	13	....	....	....	42	124	480	69	16	24
3....	31	19	13	....	....	....	37	202	441	61	14	28
4....	28	18	14	....	....	....	35	279	417	60	11	26
5....	25	19	11	....	....	....	37	317	384	56	12	21
6....	24	19	16	....	....	....	30	348	352	56	18	20
7....	23	17	17	....	....	....	37	375	326	56	21	24
8....	28	16	14	....	....	....	37	321	313	48	18	28
9....	30	16	7.5	....	....	....	40	313	268	42	15	20
10....	27	16	9.0	....	....	....	40	375	248	40	12	21
11....	26	17	8.0	....	....	....	45	370	237	36	12	21
12....	26	16	....	....	....	....	56	352	218	34	11	19
13....	25	16	....	....	....	....	69	441	218	37	10	39
14....	24	19	....	....	....	....	99	485	237	34	9.6	29
15....	23	19	....	....	....	....	108	531	221	32	10	29
16....	22	20	....	....	....	....	88	541	191	39	17	23
17....	20	20	....	....	....	....	67	485	183	30	13	27
18....	19	20	....	....	....	....	71	375	172	28	10	75
19....	18	18	....	....	....	....	102	308	159	27	13	90
20....	16	17	....	....	....	....	153	275	146	24	24	65
21....	16	17	....	....	....	....	187	252	135	27	44	56
22....	15	17	....	....	....	....	218	244	121	26	37	56
23....	14	18	....	....	....	....	260	248	111	21	36	48
24....	14	18	....	....	....	....	233	291	118	20	56	47
25....	14	15	....	....	....	....	176	308	118	18	54	48
26....	12	11	....	....	....	....	191	362	102	24	47	45
27....	11	8.0	....	....	....	....	166	441	88	28	45	40
28....	16	11	....	....	....	....	121	475	82	24	37	40
29....	17	11	....	....	....	....	99	506	80	24	36	48
30....	16	12	Dec. 1	....	....	....	88	531	88	23	30	58
31....	17	....	to 11	....	....	....	....	572	....	19	28	....
Total	669	497.0	135.5	....	....	....	2978	11137	6800	1140	734.6	1142
Mean.	21.6	16.6	12.3	....	....	....	99.3	359	227	36.8	23.7	38.1
Max..	37	20	17	....	....	....	260	572	546	77	56	90
Min...	11	8.0	7.5	....	....	....	30	90	80	18	9.6	19
Acre-ft.	1330	986	269	....	....	....	5910	22090	13490	2260	1460	2270

Total run-off for period=50,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near Mogote, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	92	94	65	58	52	54	180	790	1060	209	133	54
2....	88	106	57	60	56	52	220	885	1060	194	127	51
3....	88	88	45	62	58	54	250	809	1060	180	99	48
4....	86	94	59	62	58	54	285	885	1180	170	88	44
5....	94	113	52	55	58	54	230	896	1250	160	73	43
6....	101	90	48	57	58	54	230	1340	1030	150	86	51
7....	150	74	54	60	58	54	190	1110	754	136	107	57
8....	300	76	55	60	60	56	210	1120	745	127	130	56
9....	240	110	47	60	58	56	270	1230	709	127	88	88
10....	216	94	63	55	58	56	270	1380	692	114	73	138
11....	202	86	56	50	54	58	230	1450	700	104	68	173
12....	180	70	56	48	50	58	240	1350	676	95	62	232
13....	160	57	47	45	52	60	300	1100	644	86	61	198
14....	175	73	35	45	50	64	346	1160	612	83	65	232
15....	190	70	63	47	48	68	292	1120	548	86	56	383
16....	230	84	76	50	50	72	232	1070	470	97	53	316
17....	250	80	59	50	50	76	198	885	416	86	53	253
18....	240	70	42	50	50	84	190	990	383	73	56	224
19....	220	74	50	50	52	99	224	1320	326	69	53	190
20....	190	68	55	50	50	150	279	1450	302	66	51	173
21....	185	73	55	52	48	180	372	1380	274	62	62	147
22....	176	68	55	54	46	220	458	1340	279	62	64	133
23....	163	56	46	50	48	253	498	1320	284	63	60	121
24....	150	43	50	48	52	270	410	1180	284	63	53	109
25....	138	55	55	46	54	213	367	1010	270	58	49	102
26....	132	56	55	48	54	224	416	800	257	57	54	107
27....	126	63	55	50	52	225	452	847	240	78	61	147
28....	118	56	55	52	52	190	564	980	240	90	69	136
29....	113	56	56	48	....	165	700	1000	224	119	78	121
30....	113	66	58	48	....	150	745	1030	220	132	69	114
31....	106	....	58	50	....	150	....	916	....	213	61	....
Total	5012	2263	1682	1620	1486	3573	9848	34143	17189	3409	2262	4241
Mean.	162	75.4	54.3	52.3	53.1	115	328	1101	573	110	73.0	141
Max..	300	113	76	62	60	270	745	1450	1250	213	133	383
Min...	86	43	35	45	46	52	180	790	220	57	49	43
Acre-ft.	9940	4490	3340	3210	2950	7090	19530	67720	34090	6760	4490	8410

Total run-off for water year 1938-39==172,000 acre-feet.

Discharge of Conejos River Near Mogote, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	104	64	44	37	56	50	202	341	1310	209	69	81
2....	93	63	47	36	54	44	187	410	1210	187	65	73
3....	88	63	48	38	52	45	144	564	1090	170	64	81
4....	81	61	48	37	50	43	147	754	990	160	57	76
5....	78	61	47	37	50	48	157	800	938	163	53	71
6....	73	63	46	35	46	50	144	876	876	173	63	64
7....	72	60	45	33	50	44	141	948	809	141	78	62
8....	79	56	46	38	50	48	136	980	727	141	79	72
9....	92	63	45	39	50	50	150	828	700	127	66	69
10....	84	64	44	40	50	52	160	958	572	124	56	65
11....	78	55	43	39	48	50	157	1030	548	121	54	71
12....	76	55	44	39	46	46	173	1020	491	111	50	76
13....	73	56	40	43	40	44	216	1160	464	144	47	83
14....	71	53	37	35	42	35	306	1220	470	124	44	88
15....	69	50	37	39	44	35	383	1310	477	109	43	76
16....	66	49	36	43	44	45	346	1420	440	109	44	73
17....	64	49	34	44	42	65	288	1440	399	104	49	71
18....	63	50	35	45	44	79	257	1210	388	93	45	127
19....	62	53	20	45	46	86	297	927	367	92	44	194
20....	51	53	20	46	48	88	372	876	341	90	65	187
21....	58	54	20	48	48	107	498	809	331	86	99	150
22....	56	54	21	51	48	141	548	838	316	95	99	144
23....	55	53	22	53	48	183	644	866	288	92	102	138
24....	53	53	20	54	48	220	709	948	284	78	163	124
25....	53	51	25	55	48	284	636	948	288	72	173	127
26....	63	51	26	57	52	326	636	1000	266	72	133	127
27....	55	54	26	56	50	341	676	1140	240	150	141	116
28....	51	50	26	56	48	266	505	1220	228	104	114	107
29....	58	44	32	55	47	209	422	1260	224	90	109	109
30....	57	46	34	56	....	190	367	1270	228	95	97	133
31....	62	....	37	55	....	198	....	1250	....	79	84	....
Total	2138	1651	1095	1384	1389	3512	10004	30621	16300	3705	2449	3035
Mean.	69.0	55.0	35.3	44.6	47.9	113	333	988	543	120	79.0	101
Max..	104	64	48	57	56	341	709	1440	1310	209	173	194
Min...	51	44	20	33	40	35	136	341	224	72	43	62
Acre-ft.	4240	3270	2170	2750	2760	6970	19840	60740	32330	7350	4860	6026

Total run-off for water year 1939-40==153,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near Las Sauses, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	28	63	62	68	95	84	223	872	66	0.6	1.5	1.0
2....	25	68	64	68	102	84	251	958	65	0.6	1.7	1.0
3....	24	70	67	67	98	84	302	936	60	0.6	4.3	1.2
4....	27	66	67	72	98	84	363	837	54	0.6	4.5	1.3
5....	26	66	68	73	93	84	390	795	100	0.6	4.1	1.5
6....	26	66	71	70	95	84	296	839	135	0.6	3.8	1.7
7....	29	61	70	69	95	84	289	844	96	0.6	4.3	1.9
8....	54	60	71	72	95	84	227	707	55	0.6	4.3	2.1
9....	112	66	74	76	97	84	209	674	39	0.6	3.7	2.1
10....	106	76	74	75	96	90	261	680	29	0.6	3.5	1.5
11....	102	78	75	75	81	95	261	687	22	0.6	3.4	1.7
12....	100	74	80	78	78	105	211	643	15	0.6	2.8	1.7
13....	95	70	78	78	78	119	207	540	5.0	0.9	1.5	2.8
14....	94	66	75	80	76	155	252	494	2.7	0.9	0.9	4.3
15....	94	66	70	80	76	169	271	514	1.7	0.9	1.1	4.8
16....	101	71	69	80	73	172	234	484	1.2	0.9	1.3	6.9
17....	128	70	81	78	75	177	182	429	1.2	0.9	1.1	7.8
18....	138	69	80	78	73	186	153	340	1.2	0.9	0.9	7.6
19....	115	69	78	78	73	217	127	308	1.2	0.9	1.3	8.4
20....	103	70	87	78	73	277	125	355	2.2	0.9	1.1	7.2
21....	99	74	87	73	77	338	138	415	3.8	0.9	1.4	5.9
22....	99	73	83	78	78	364	215	406	3.8	0.9	1.3	6.9
23....	96	70	82	75	78	412	345	355	1.4	0.9	1.1	7.9
24....	93	70	82	76	75	466	424	295	1.0	0.9	1.2	8.0
25....	88	68	77	77	75	417	322	252	1.0	0.9	1.0	9.3
26....	78	61	73	82	75	378	300	230	1.0	0.9	1.0	11
27....	77	60	73	83	77	391	365	194	1.0	2.1	1.2	11
28....	76	56	71	81	85	355	449	156	0.6	3.1	1.0	10
29....	72	57	66	79	....	292	566	128	0.6	2.9	1.0	9.9
30....	68	56	66	79	....	254	733	108	0.6	2.1	1.0	9.4
31....	65	....	66	75	....	226	....	88	....	1.7	1.0	....
Total	2438	2010	2287	2351	2340	6411	8691	15563	767.2	31.7	63.3	157.8
Mean.	78.6	67.0	73.8	75.8	83.6	207	290	502	25.6	1.02	2.04	5.26
Max..	138	78	87	83	102	466	733	958	135	3.1	4.5	11.0
Min...	24	56	62	67	73	84	125	88	0.6	0.6	0.9	1.0
Acre-ft.	4840	3990	4540	4660	4640	12720	17240	30870	1520	63	126	313

Total run-off for water year 1938-39=85,520 acre-feet.

Discharge of Conejos River Near Las Sauses, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.4	37	40	54	71	89	32	36	563	3.6	1.2	0.1
2....	8.8	38	40	53	71	84	26	26	458	3.6	1.4	0.1
3....	8.2	37	39	52	70	82	18	30	351	3.4	1.6	0.4
4....	7.4	36	39	52	69	80	17	46	186	2.8	1.4	0.4
5....	6.4	37	39	52	72	75	18	65	91	2.7	1.6	0.2
6....	6.5	37	38	56	69	67	19	57	50	3.6	2.5	0.2
7....	6.5	37	39	54	70	62	17	58	23	2.9	1.4	0.2
8....	6.5	37	43	54	70	68	16	76	14	2.1	0.3	0.8
9....	7.2	34	43	52	66	68	7.9	90	12	1.6	0.1	1.0
10....	7.6	36	44	52	66	66	3.1	56	10	1.4	0.2	1.0
11....	10	35	45	53	66	66	2.8	43	8.0	1.4	0.3	1.0
12....	18	34	46	56	67	67	2.4	51	5.1	1.2	0.7	1.1
13....	18	35	44	60	65	63	3.7	73	4.5	0.6	0.7	5.7
14....	18	35	44	54	65	63	4.6	128	4.3	0.6	0.3	14
15....	18	37	46	51	65	63	32	144	4.2	0.4	0.3	15
16....	18	37	46	54	64	63	85	184	4.2	0.6	0.3	15
17....	19	37	46	61	61	61	69	276	4.5	0.4	0.3	16
18....	19	37	47	68	61	59	30	902	4.5	0.4	0.3	16
19....	20	37	46	56	61	59	22	856	4.7	0.4	0.3	16
20....	20	37	46	61	61	59	18	569	4.7	0.4	0.5	16
21....	20	37	46	65	61	60	18	378	4.7	0.3	0.9	16
22....	19	38	48	60	61	56	61	366	4.4	0.3	0.5	16
23....	20	39	49	54	60	44	101	433	4.4	0.2	0.6	16
24....	20	40	51	54	63	43	135	451	3.8	0.2	1.2	17
25....	20	40	51	60	64	41	168	441	3.5	0.2	1.2	18
26....	22	41	51	58	68	33	120	440	3.3	0.2	0.6	17
27....	23	41	54	61	71	62	129	506	3.4	0.2	0.3	17
28....	33	40	54	63	77	92	119	563	3.6	0.2	0.3	17
29....	35	40	52	64	84	62	74	588	3.6	0.2	0.3	17
30....	35	41	52	64	....	45	46	594	3.8	0.3	0.3	17
31....	36	....	52	68	....	37	....	591	....	1.8	0.2	....
Total	535.5	1124	1420	1776	1939	1939	1414.5	9117	1845.2	38.2	22.1	288.5
Mean.	17.3	37.5	45.8	57.3	66.9	62.5	47.2	294	61.5	1.23	0.71	9.62
Max..	36	41	54	68	84	92	168	902	563	3.6	2.5	18
Min...	6.4	34	38	51	60	33	2.4	26	3.3	0.2	0.1	0.1
Acre-ft.	1060	2230	2820	3520	3850	3850	2810	18080	3660	76	44	572

Total run-off for water year 1939-40=42,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Antonio River at Ortiz, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.3	3.8	....	....	....	....	77	238	10	0.4	1.7	0.9
2....	2.3	4.4	....	....	....	....	105	215	9.7	0.4	0.8	1.2
3....	3.2	4.4	....	....	....	....	117	181	8.6	0.2	0.4	0.5
4....	2.9	....	....	....	....	....	132	176	9.2	0.2	0.1	0.3
5....	3.5	....	....	....	....	....	83	150	9.2	0.1	0.2	0.2
6....	3.8	....	....	....	....	....	89	148	8.6	0.1	0.2	0.1
7....	3.5	....	....	....	....	....	50	122	6.3	0.1	0.2	1.1
8....	40	....	....	....	....	....	50	107	5.1	0	0.4	1.6
9....	18	....	....	....	....	....	91	98	3.4	0	0.2	0.8
10....	9.0	....	....	....	....	....	91	91	2.2	0	0.1	1.6
11....	5.4	....	....	....	....	....	56	80	1.9	0	0.1	8.0
12....	4.4	....	....	....	....	....	64	81	1.1	0	0.1	3.4
13....	3.2	....	....	....	....	....	104	69	0.6	0	0.1	1.6
14....	3.2	....	....	....	....	....	104	58	0.5	0	0	0.9
15....	3.2	....	....	....	....	....	78	51	0.4	0	0	0.8
16....	3.2	....	....	....	....	....	56	47	0.3	0	0	1.9
17....	3.5	....	....	....	....	....	51	39	0.2	0	0	2.6
18....	3.2	....	....	....	....	....	52	36	0.1	0	0	3.0
19....	2.3	....	....	....	....	....	81	33	0.1	0	0	1.6
20....	2.6	....	....	....	....	....	111	30	0.1	0	0	1.2
21....	2.9	....	....	....	....	....	157	27	0.1	0	0	0.5
22....	3.5	....	....	....	....	Mar. 24	210	24	0.1	0	0.1	0.2
23....	4.1	....	....	....	....	to 31	212	22	0	0	0.1	0.1
24....	4.1	....	....	....	....	273	152	19	0.1	0	0	0.3
25....	3.8	....	....	....	....	195	145	18	0.1	0	0	3.4
26....	3.8	....	....	....	....	162	188	18	0.1	0	0	1.7
27....	3.8	....	....	....	....	134	208	16	0.2	0	0	1.4
28....	3.8	....	....	....	....	65	212	16	0.3	0	0	1.9
29....	3.8	....	....	....	....	50	220	14	0.3	0	0	1.9
30....	3.8	Nov. 1	....	....	....	43	228	12	0.4	0.2	0	1.2
31....	4.1	to 3	....	....	....	45	....	12	....	1.6	0	....
Total	164.2	12.6	....	....	....	967	3574	2248	79.3	3.3	4.8	45.9
Mean.	5.3	4.2	....	....	....	121	119	72.5	2.64	0.11	0.15	1.53
Max..	40	4.4	....	....	....	273	228	238	10	1.6	1.7	8.0
Min...	2.3	3.8	....	....	....	43	50	12	0	0	0	0.1
Acre-ft.	326	25	....	....	....	1920	7090	4460	157	6.5	9.5	91

Total run-off for period=14,085 acre-feet.

Discharge of San Antonio River at Ortiz, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.2	3.0	....	....	....	....	83	52	10	0	0	0.2
2....	0.9	2.0	....	....	....	....	88	81	8.0	0	0	2.0
3....	0.6	1.6	....	....	....	....	64	86	6.9	0	0	1.4
4....	0.9	2.0	....	....	....	....	50	91	6.3	0	0	1.7
5....	0.9	3.0	....	....	....	....	55	73	6.3	0	0	0.9
6....	0.9	3.8	....	....	....	....	45	75	5.9	0	0	0.6
7....	1.1	4.7	....	....	....	....	56	78	5.1	0	0	0.5
8....	2.0	3.8	....	....	....	....	47	60	4.2	0	13	0.4
9....	13	3.4	....	....	....	....	59	51	3.8	0	5.9	0.4
10....	8.6	3	....	....	....	....	77	47	2.6	0	1.9	0.4
11....	5.5	3	....	....	....	....	81	45	2.6	0	1.1	3.0
12....	4.2	3	....	....	....	....	77	50	2.6	0	0.5	6.9
13....	3.8	3	....	....	....	....	95	51	2.6	0	0.4	5.1
14....	3.4	3	....	....	....	....	134	43	2.2	0	0.3	2.2
15....	3.8	3	....	....	..	....	159	36	1.6	0	0.2	1.4
16....	3.8	3	....	....	....	....	139	32	1.4	0	0.1	1.2
17....	3.8	4	....	....	....	....	98	34	1.1	0	0.1	0.9
18....	4.2	4	....	....	....	....	78	37	0.6	0	0.1	1.7
19....	4.2	4	....	....	....	....	85	35	0.5	0	0	4.2
20....	3.8	4	....	....	....	....	117	31	0.4	0	0	3.8
21....	3.8	4	....	....	....	....	159	33	0.3	0	0	2.6
22....	3.4	4	....	....	....	....	159	40	0.2	0	0	3.0
23....	3.8	4	....	....	....	....	157	43	0.1	0	0	5.5
24....	3.8	4	....	....	....	....	150	45	0	0	1.6	3.4
25....	3.0	5	....	....	....	....	139	37	0	0	1.2	2.6
26....	3.4	5	....	....	....	....	150	30	0	0	1.1	2.2
27....	4.7	5	....	....	....	....	143	25	0	0	0.6	2.6
28....	6.9	5	....	....	....	....	98	22	0	0	0.4	2.6
29....	5.1	5	....	....	....	46	83	19	0	0	0.2	2.0
30....	2.2	4	....	....	....	43	64	16	0	0	0.2	2.0
31....	3.0	....	....	....	....	65	....	13	....	0	0.1	....
Total	113.7	109.3	....	....	....	154	2989	1411	75.3	0	29.0	67.4
Mean.	3.67	3.64	....	....	....	....	99.6	45.5	2.51	0	0.94	2.25
Max..	13	5	....	....	....	....	159	91	10	0	13	6.9
Min...	0.6	1.6	....	....	....	....	45	13	0	0	0	0.2
Acre-ft.	226	217	....	....	....	....	5930	2800	149	0	58	134

Total run-off for period=9,510 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Antonio River at Mouth Near Manassa, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.8	5.0	2.6	3.5	....	2.0	96	822	102	0.5	0	0
2....	2.1	5.0	2.6	3.5	....	2.0	120	822	110	0.3	0	0
3....	3.1	7.2	3.0	3.5	....	2.0	150	684	105	0.3	0	0
4....	4.0	7.5	3.0	3.5	....	2.0	202	664	100	0.3	0	0
5....	4.2	7.5	3.2	3.5	....	2.0	184	576	112	0.3	0	0
6....	4.0	7.2	3.2	3.0	....	2.0	186	611	112	0.3	0	0
7....	5.5	5.8	3.2	3.0	....	2.0	149	516	85	0.2	0	0
8....	15	5.2	3.4	3.0	*1.0	2.0	125	471	59	0.2	0	0
9....	22	6.0	3.7	3.0	....	2.0	136	448	46	0.2	0	0
10....	13	6.8	4.8	3.0	....	2.0	166	430	27	0.2	0	0
11....	10	5.5	4.8	3.0	....	20	154	401	18	0.1	0	0
12....	9.2	5.0	5.2	3.0	....	20	134	381	17	0.1	0	0
13....	9.5	4.0	4.7	3.0	....	20	156	336	18	0	0	0
14....	9.5	4.0	3.7	3.0	....	20	190	343	18	0	0	0
15....	9.5	4.2	3.4	3.0	....	20	178	345	16	0.1	0	0
16....	9.5	4.4	3.7	2.5	....	40	147	331	11	0.1	0	0
17....	9.5	4.7	4.0	2.5	....	60	120	295	8.5	0.0	0	0
18....	10	4.8	4.2	2.5	....	80	112	251	7.2	0	0	0
19....	8.2	4.0	3.7	2.5	....	140	120	223	6.5	0	0	0
20....	7.0	4.0	3.9	2.5	....	150	152	223	5.5	0	0	0
21....	6.5	4.2	3.9	2.5	....	160	216	227	4.5	0	0	0
22....	8.2	4.0	3.7	2.5	....	210	336	218	3.7	0	0	0
23....	6.8	3.9	4.0	2.5	....	270	456	194	2.9	0	0	0
24....	5.5	3.1	4.0	2.5	....	243	362	170	2.6	0	0	0
25....	4.8	2.8	4.0	2.5	....	202	280	160	2.1	0	0	0
26....	4.5	2.8	3.8	2.0	....	180	307	152	1.8	0	0	0
27....	4.7	2.6	3.8	2.0	....	198	387	138	1.7	0	0	0
28....	4.8	2.6	3.7	2.0	....	150	500	115	1.7	0	0	0
29....	5.8	2.6	3.7	2.0	....	118	636	107	1.4	0	0	0
30....	5.0	2.6	3.5	2.0	....	100	688	104	1.1	0	0	0
31....	5.0	....	3.5	2.0	....	91	....	94	....	0	0	....
Total	228.2	139.0	115.6	84.5	42	2512	7145	10852	1007.2	3.2	0	0
Mean.	7.36	4.63	3.73	2.73	1.50	81	238	350	33.6	0.10	0	0
Max..	22	7.5	5.2	....	....	270	688	822	112	0.5	0	0
Min...	1.8	2.6	2.6	....	....	....	96	94	1.1	0	0	0
Acre-ft.	453	276	229	168	83	4980	14170	21520	2000	6.3	0	0

Total run-off for water year 1938-39=43,885 acre-feet.

*Discharge measurement.

Discharge of San Antonio River at Mouth Near Manassa, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	0.2	0.2	0.3	8	44	107	145	0.5	0	0
2....	0	0	0.2	0.2	0.3	8	52	117	134	0.4	0	0
3....	0	0	0.2	0.2	0.3	6	41	168	118	0.4	0	0
4....	0	0	0.2	0.2	0.3	5	28	248	91	0.4	0	0
5....	0	0	0.2	0.2	0.3	4	23	231	68	0.4	0	0
6....	0	0	0.2	0.2	0.3	4	29	219	48	0.3	0	0
7....	0	0	0.2	0.2	0.3	4	29	221	42	0.3	0	0
8....	0	0	0.2	0.2	0.3	4	26	224	33	0.3	0	0
9....	0	0	0.2	0.2	0.3	4	23	201	22	0.2	0	0
10....	0	0	0.2	0.2	0.3	4	29	194	14	0.2	0	0
11....	0	0	0.3	0.2	0.3	4	45	198	14	0.2	0	0
12....	0	0	0.3	0.2	0.3	4	47	212	13	0.2	0	0
13....	0	0	0.3	0.2	0.3	4	73	238	8.4	0.2	0	0
14....	0	0	0.3	0.2	0.3	4	149	238	7.5	0.1	0	0
15....	6	0	0.2	0.2	0.3	3.7	250	224	5.5	0.1	0	0
16....	0	0	0.2	0.2	0.3	3.7	236	217	4.7	0.1	0	0
17....	0	0	0.2	0.2	0.3	3.7	182	257	4.4	0.1	0	0
18....	0	0	0.2	0.2	0.3	3.9	132	442	3.7	0.1	0	0
19....	0	0	0.2	0.2	0.3	3.9	100	324	2.8	0.1	0	0
20....	0	0	0.2	0.2	0.3	4.2	118	231	2.6	0.1	0	0
21....	0	0	0.2	0.2	0.3	4.2	221	187	2.4	0.1	0	0
22....	0	0	0.2	0.2	0.3	4.4	298	192	2.4	0.1	0	0
23....	0	0.1	0.2	0.2	0.3	5.0	311	243	2.0	0	0	0
24....	0	0.2	0.2	0.2	0.5	3.7	340	238	2.0	0	0	0
25....	0	0.2	0.2	0.2	1.0	22	319	224	1.7	0	0	0
26....	0	0.2	0.2	0.2	2.0	72	314	224	1.4	0	0	0
27....	0	0.2	0.2	0.2	2.0	102	353	240	1.2	0	0	0
28....	0	0.2	0.2	0.2	5.0	89	236	221	1.1	0	0	0
29....	0	0.2	0.2	0.2	8.0	62	168	203	0.9	0	0	0
30....	0	0.2	0.2	0.2	....	36	132	187	0.8	0	0	0
31....	0	....	0.2	0.2	....	32	....	170	....	0	0	....
Total	0	1.5	6.6	6.2	25.4	522.4	4348	6840	797.5	4.9	0	0
Mean.	0	0.05	0.21	0.20	0.88	16.9	145	221	26.6	0.16	0	0
Max..	0	0.2	0.3	0.2	8.0	102	353	442	145	0.5	0	0
Min...	0	0	0.2	0.2	0.3	3.7	23	107	0.8	0	0	0
Acre-ft.	0	3.0	13	12	50	1040	8620	13570	1580	9.7	0	0

Total run-off for water year 1939-40=24,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Los Pinos River Near Ortiz, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	23	23	....	....	....	....	105	981	260	40	26	14
2....	22	24	....	....	....	....	142	905	244	38	21	13
3....	22	....	....	....	....	....	187	851	234	32	19	11
4....	23	....	....	....	....	....	216	816	253	30	19	9.6
5....	23	....	....	....	....	....	171	778	253	27	18	9.6
6....	24	....	....	....	....	....	173	789	228	25	17	12
7....	27	....	....	....	....	....	132	667	196	22	20	13
8....	80	....	....	....	....	....	145	667	182	21	28	13
9....	58	....	....	....	....	....	207	672	166	22	21	11
10....	44	....	....	....	....	....	210	688	155	20	18	30
11....	44	....	....	....	....	....	163	657	147	18	16	22
12....	40	....	....	....	....	....	173	599	142	16	16	21
13....	43	....	....	....	....	....	231	558	134	16	15	21
14....	41	....	....	....	....	....	266	536	124	16	17	24
15....	40	....	....	....	....	....	210	477	112	18	16	38
16....	62	....	....	....	....	....	171	452	100	19	13	32
17....	53	....	....	....	....	....	155	393	90	19	13	25
18....	37	....	....	....	....	....	160	436	83	16	13	24
19....	34	....	....	....	....	....	213	465	75	16	15	20
20....	31	....	....	....	....	....	293	440	71	16	15	17
21....	31	....	....	....	....	....	440	397	64	15	19	16
22....	30	....	....	....	....	....	554	385	58	14	19	15
23....	28	....	....	....	....	Mar. 25	590	370	53	16	16	14
24....	26	....	....	....	....	to 31	432	338	52	15	16	13
25....	25	....	....	....	....	122	420	297	46	14	14	13
26....	24	....	....	....	....	153	541	253	45	13	16	13
27....	24	....	....	....	....	150	657	253	43	16	17	17
28....	24	....	....	....	....	110	816	253	43	21	21	18
29....	24	....	....	....	....	92	869	253	43	25	20	16
30....	23	Nov. 1	....	....	....	81	924	256	43	24	16	16
31....	23	to 2	....	....	....	85	....	244	....	38	14	....
Total	1053	47	....	....	....	793	9966	16126	3739	658	544	531.2
Mean.	34.0	23.5	....	....	....	113	332	520	125	21.2	17.5	17.7
Max..	80	....	....	....	....	153	924	981	260	40	28	38
Min...	22	....	....	....	....	81	105	244	43	13	13	9.6
Acre-ft.	2090	93	....	....	....	1570	19770	31990	7420	1310	1080	1050

Total run-off for period=66,373 acre-feet.

Discharge of Los Pinos River Near Ortiz, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	15	....	....	....	....	142	228	253	34	15	13
2....	13	17	....	....	....	....	137	348	240	32	14	14
3....	13	16	....	....	....	....	102	473	222	30	15	20
4....	13	15	....	....	....	....	102	486	201	27	14	17
5....	13	16	....	....	....	....	107	424	193	42	13	15
6....	12	17	....	....	....	....	92	440	179	42	16	14
7....	13	16	....	....	....	....	100	456	160	31	19	13
8....	16	15	....	....	....	....	96	408	147	27	62	13
9....	18	16	....	....	....	....	112	370	134	25	26	13
10....	18	16	....	....	....	....	140	416	122	24	19	15
11....	16	13	....	....	....	....	150	424	112	24	16	15
12....	16	13	....	....	....	....	171	440	102	21	16	16
13....	16	14	....	....	....	....	244	444	98	22	13	15
14....	16	13	....	....	....	....	378	424	94	21	12	15
15....	15	13	....	....	....	....	432	408	90	20	12	14
16....	14	13	....	....	....	....	334	412	85	19	12	13
17....	15	16	....	....	....	....	234	461	81	19	13	13
18....	15	26	....	....	....	....	196	428	73	18	12	18
19....	14	19	....	....	....	....	237	331	66	18	11	19
20....	14	20	....	....	....	....	366	290	60	19	16	20
21....	14	26	....	....	....	....	486	283	58	19	20	17
22....	13	21	....	....	....	....	515	317	58	21	17	16
23....	14	20	....	....	....	....	558	378	53	19	20	16
24....	13	22	....	....	....	....	563	363	53	17	36	14
25....	13	24	....	....	....	....	550	324	46	16	34	14
26....	15	27	....	....	....	....	563	310	42	16	24	16
27....	16	28	....	....	....	Mar. 29	507	320	37	30	20	14
28....	15	27	....	....	....	to 31	320	303	38	19	17	13
29....	18	27	....	....	....	117	266	293	37	17	16	13
30....	16	20	....	....	....	110	225	273	37	17	15	17
31....	17	....	....	....	....	124	....	263	....	16	13	....
Total	458	561	....	....	....	351	8425	11538	3171	722	578	455
Mean.	14.8	18.7	....	....	....	11.7	281	372	106	23.3	18.6	15.2
Max..	18	28	....	....	....	124	563	486	253	42	62	20
Min...	12	13	....	....	....	110	92	228	37	16	11	13
Acre-ft.	908	1110	....	....	....	696	16710	22890	6290	1430	1150	902

Total run-off for period=52,090 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Culebra River (Above Mill) at San Luis, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	29	27	26	27	29	29	30	216	162	91	58
2....	32	31	27	26	25	27	31	34	230	130	122	56
3....	29	32	27	26	30	28	29	31	220	91	149	38
4....	26	33	27	25	30	27	29	28	200	20	181	50
5....	27	32	27	26	28	27	28	30	224	91	166	49
6....	30	24	27	26	26	27	26	29	229	179	144	42
7....	35	33	27	26	26	28	26	20	245	214	127	44
8....	33	33	27	26	26	29	26	33	251	206	94	58
9....	22	33	27	24	26	29	18	53	238	188	93	56
10....	30	33	27	25	25	30	26	52	218	222	107	43
11....	35	33	27	24	25	32	24	74	170	250	104	38
12....	37	32	27	24	24	35	25	86	219	280	92	32
13....	36	32	26	24	27	40	24	66	226	292	66	34
14....	36	32	26	24	26	43	28	49	238	280	69	33
15....	33	32	26	24	26	39	30	42	257	241	90	38
16....	19	32	26	27	27	38	20	74	272	135	95	35
17....	30	32	26	30	26	37	23	86	247	136	86	34
18....	30	31	26	30	26	34	22	96	215	150	77	32
19....	30	31	26	29	26	33	23	109	247	151	70	24
20....	30	32	26	30	27	33	23	106	223	166	58	27
21....	30	32	26	30	26	41	23	101	240	175	58	23
22....	30	31	26	30	27	38	24	148	211	182	68	24
23....	18	29	25	31	26	47	18	187	209	153	67	29
24....	24	29	24	30	27	39	26	203	190	155	53	24
25....	33	29	24	29	27	34	29	231	166	188	58	22
26....	33	29	26	29	26	20	29	209	200	196	46	33
27....	32	29	27	29	27	35	26	203	216	193	23	31
28....	30	27	27	30	28	31	25	190	205	176	40	24
29....	30	26	26	29	....	32	30	204	200	78	50	23
30....	30	26	26	30	....	36	31	204	180	65	50	23
31....	29	....	27	28	....	30	....	202	....	76	59	....
Total	933	919	816	847	743	1028	771	3210	6602	5221	2653	1077
Mean.	30.1	30.6	26.3	27.3	26.5	33.2	25.7	104	220	168	85.6	35.9
Max..	37	33	27	31	30	47	31	231	272	292	181	58
Min...	18	24	24	24	24	20	18	20	166	20	23	22
Acre-ft.	1850	1820	1620	1680	1470	2040	1530	6370	13090	10360	5260	2140

Total run-off for water year 1938-39= 49,230 acre-feet.

Discharge of Culebra River Above Mill at San Luis, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	12	24	28	28	26	29	26	22	94	178	149	8.8
2....	21	23	24	27	26	24	26	22	102	170	143	45
3....	26	23	12	27	23	14	24	14	110	108	130	85
4....	25	22	26	27	12	29	24	14	148	21	116	42
5....	26	14	29	27	27	30	24	14	220	88	155	39
6....	24	25	29	25	27	29	24	20	250	131	122	38
7....	22	27	29	11	27	29	16	25	272	134	82	33
8....	11	24	28	26	27	29	22	30	302	200	69	9.6
9....	26	27	24	28	27	27	23	37	272	198	68	37
10....	23	33	13	28	23	16	22	41	288	220	73	39
11....	22	19	24	27	11	29	20	51	276	229	62	35
12....	25	14	26	27	26	29	20	40	288	219	51	39
13....	21	26	27	23	26	28	20	35	259	200	47	37
14....	22	28	28	10	27	29	12	51	234	184	50	76
15....	22	28	27	22	27	28	21	56	223	213	50	35
16....	24	29	24	25	26	24	26	39	179	203	50	35
17....	23	29	12	27	22	13	27	54	230	197	47	36
18....	21	26	24	27	10	25	23	48	236	179	82	37
19....	23	13	26	27	26	26	22	25	227	169	46	32
20....	23	27	23	24	27	28	23	35	243	142	42	29
21....	21	29	24	12	27	29	12	37	224	105	46	29
22....	12	29	26	28	27	26	23	39	231	112	42	22
23....	23	29	22	20	27	23	24	47	218	151	41	26
24....	26	29	12	20	23	12	23	50	247	204	34	26
25....	22	29	11	24	12	22	23	47	237	178	9.2	25
26....	23	29	24	23	28	24	23	42	215	164	36	30
27....	21	29	26	20	32	22	23	46	234	126	40	28
28....	23	29	26	9.2	32	23	14	58	233	76	39	23
29....	22	29	26	24	31	18	24	83	215	90	40	18
30....	22	29	24	24	....	18	22	85	190	109	40	23
31....	23	....	12	26	....	12	....	91	....	137	33	....
Total	680	771	716	723.2	712	744	656	1298	6697	4835	2034.2	1017.4
Mean.	21.9	25.7	23.1	23.3	24.6	24.0	21.9	41.9	223	156	65.6	33.9
Max..	26	33	29	28	32	30	27	91	302	229	155	85
Min...	11	13	11	9.2	10	12	12	14	94	21	9.2	8.8
Acre-ft.	1350	1530	1420	1430	1410	1480	1300	2570	13280	9590	4030	2020

Total run-off for water year 1939-40=41,410 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Culebra River (Below Mill) at San Luis, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	41	....	....	....	....	....	53	234	167	89	68
2....	48	44	....	....	....	....	....	55	251	136	124	67
3....	45	46	....	....	....	....	....	53	242	100	157	48
4....	39	46	....	....	....	....	....	49	219	26	194	61
5....	41	48	....	....	....	....	....	50	245	78	170	60
6....	45	46	....	....	....	....	....	49	245	194	154	54
7....	54	46	....	....	....	....	....	41	263	242	133	57
8....	76	46	....	....	....	....	....	50	266	240	100	71
9....	40	49	....	....	....	....	Apr. 11	70	254	208	96	68
10....	45	49	....	....	....	....	to 30	61	231	242	113	57
11....	50	50	....	....	....	....	39	82	170	272	113	53
12....	51	46	....	....	....	....	32	98	231	296	96	49
13....	51	44	....	....	....	....	32	80	234	308	74	49
14....	51	41	....	....	....	....	33	65	248	305	76	46
15....	50	42	....	....	....	....	39	57	272	290	92	61
16....	34	44	....	....	....	....	30	80	290	145	102	55
17....	41	45	....	....	....	....	33	91	263	133	92	45
18....	44	42	....	....	....	....	36	104	234	140	80	42
19....	44	44	....	....	....	....	36	120	266	142	76	36
20....	41	45	....	....	....	....	37	120	240	164	65	37
21....	40	46	....	....	....	....	38	115	257	186	65	37
22....	40	45	....	....	....	....	39	160	231	191	76	36
23....	41	44	....	....	....	....	37	205	231	160	76	40
24....	40	....	....	....	....	....	44	225	205	160	65	37
25....	48	....	....	....	....	....	44	263	167	199	71	31
26....	45	....	....	....	....	....	48	242	219	211	60	45
27....	46	....	....	....	....	....	44	234	225	219	37	42
28....	44	....	....	....	....	....	42	219	211	194	50	36
29....	42	....	....	....	....	....	46	245	211	80	58	36
30....	44	Nov. 1	....	....	....	....	51	222	186	67	58	36
31....	42	to 23	....	....	....	....	....	216	....	72	67	....
Total	1410	1039	....	....	....	....	780	3774	7041	5567	2879	1460
Mean.	45.5	45.2	....	....	....	....	39.0	122	235	180	92.9	48.7
Max..	76	50	....	....	....	....	51	263	290	308	194	71
Min...	34	41	....	....	....	....	30	41	167	26	37	31
Acre-ft.	2800	2060	....	....	....	....	1550	7490	13970	11040	5710	2900

Total run-off for period=47,520 acre-feet.

Discharge of Culebra River Below Mill at San Luis, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	23	35	40	....	....	....	38	28	94	202	152	18
2....	32	34	36	....	....	....	39	29	100	194	152	49
3....	34	34	25	....	....	....	37	22	109	120	133	76
4....	38	33	38	....	....	....	37	20	152	42	111	42
5....	36	25	39	....	....	....	37	19	237	129	177	41
6....	36	36	39	....	....	....	39	23	260	150	142	41
7....	33	38	40	....	....	....	31	25	293	147	89	36
8....	25	35	40	....	....	....	36	30	314	228	71	19
9....	38	39	38	....	....	....	36	36	290	228	65	39
10....	34	44	26	....	....	....	34	41	296	251	68	45
11....	33	30	....	....	....	....	32	50	275	257	61	41
12....	36	25	....	....	....	....	31	42	299	251	49	48
13....	33	37	....	....	....	....	31	36	263	234	44	48
14....	32	39	....	....	....	....	25	45	257	199	49	89
15....	32	39	....	....	....	....	33	51	251	237	48	44
16....	36	40	....	....	....	....	37	42	196	216	53	45
17....	34	40	....	....	....	Mar. 19	39	64	245	205	49	46
18....	32	37	....	....	....	to 31	36	65	254	186	80	49
19....	34	24	....	....	....	33	34	37	248	175	45	49
20....	34	39	....	....	....	34	38	41	272	140	42	41
21....	32	40	....	....	....	37	28	44	257	100	45	42
22....	23	40	....	....	....	36	37	46	266	102	40	36
23....	34	40	....	....	....	31	36	48	251	145	41	34
24....	37	40	....	....	....	22	33	50	281	211	39	37
25....	33	40	....	....	....	32	34	49	275	177	19	38
26....	34	40	....	....	....	34	37	41	242	162	40	44
27....	32	40	....	....	....	32	38	42	266	115	41	45
28....	34	40	....	....	....	33	28	55	269	67	40	39
29....	33	40	....	....	....	29	36	80	248	77	41	34
30....	33	40	Dec. 1	....	....	29	29	83	222	98	41	38
31....	34	....	to 10	....	....	24	....	94	....	136	36	....
Total	1024	1103	361	....	....	406	1036	1378	7282	5181	2103	1293
Mean.	33.0	36.8	36.1	....	....	31.2	34.5	44.5	243	167	67.8	43.1
Max..	38	44	40	....	....	37	39	94	314	257	177	89
Min...	23	24	25	....	....	22	25	19	94	42	19	18
Acre-ft.	2030	2190	716	....	....	805	2050	2730	14440	10280	4170	2560

Total run-off for period=41,970 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Garita Creek Near La Garita, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.3	....	....	....	....	....	13	43	29	8.7	5.7	4.5
2....	7.3	....	....	....	....	....	18	47	23	8.0	5.1	3.8
3....	7.7	....	....	....	....	....	18	49	21	7.6	4.8	3.3
4....	7.3	....	....	....	....	....	20	42	20	7.2	4.0	4.0
5....	8.2	....	....	....	....	....	11	38	20	6.9	4.2	4.2
6....	8.2	....	....	....	....	....	14	44	19	6.3	5.1	4.8
7....	22	....	....	....	....	....	9.1	36	17	5.7	7.2	5.1
8....	32	....	....	....	....	....	12	36	16	6.3	5.1	5.1
9....	23	....	....	....	....	....	20	37	16	6.3	4.2	5.4
10....	16	....	....	....	....	....	14	42	16	5.7	4.5	5.4
11....	15	....	....	....	....	....	10	46	16	5.1	4.2	5.7
12....	16	....	....	....	....	....	12	46	16	5.1	3.8	5.4
13....	16	....	....	....	....	....	16	39	16	4.5	5.1	5.1
14....	16	....	....	....	....	....	16	33	16	4.5	5.1	5.7
15....	16	....	....	....	....	....	11	34	16	5.1	5.4	5.4
16....	17	....	....	....	....	....	8.0	33	17	5.1	4.8	5.1
17....	18	....	....	....	....	....	6.0	31	16	4.5	5.1	5.1
18....	18	....	....	....	....	....	6.3	28	15	4.0	4.5	4.8
19....	17	....	....	....	....	....	9.1	32	14	4.2	4.2	4.5
20....	17	....	....	....	....	....	12	32	14	3.8	5.5	4.2
21....	16	....	....	....	....	....	17	31	14	3.8	6.9	4.0
22....	16	....	....	....	....	....	23	30	12	4.2	4.8	4.5
23....	15	....	....	....	....	....	38	28	12	3.8	4.0	4.2
24....	16	....	....	....	....	....	25	24	12	3.3	6.0	4.5
25....	16	....	....	....	....	....	21	24	11	3.5	5.1	4.5
26....	16	....	....	....	....	....	22	25	10	3.8	5.7	4.5
27....	16	....	....	....	....	Mar. 29	25	23	9.5	4.5	6.0	4.5
28....	16	....	....	....	....	to 31	36	24	9.5	5.1	10	4.8
29....	15	....	....	....	....	7.6	54	24	9.5	5.4	7.2	5.4
30....	11	....	....	....	....	6.6	47	24	9.1	6.6	6.3	4.5
31....	9.0	....	....	....	....	8.3	....	25	....	7.2	5.4	....
Total	467.0	....	....	....	....	22.5	563.5	1050	461.6	165.8	165.0	142.0
Mean.	15.1	....	....	....	....	7.50	18.8	33.9	15.4	5.35	5.32	4.73
Max..	32	....	....	....	....	8.3	54	49	29	8.7	10	5.7
Min...	7.3	....	....	....	....	6.6	6.0	23	9.1	3.3	3.8	3.3
Acre-ft.	928	....	....	....	....	45	1120	2080	916	329	327	282

Total run-off for period=6,027 acre-feet.

Discharge of La Garita Creek Near La Garita, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.5	....	....	....	....	....	6.7	5.0	7.5	3.0	2.1	1.6
2....	4.0	....	....	....	....	....	4.7	5.2	6.7	2.6	2.5	2.1
3....	4.0	....	....	....	....	....	4.5	7.9	6.7	3.0	2.5	2.1
4....	3.8	....	....	....	....	....	6.0	11	6.7	2.5	2.1	2.3
5....	3.5	....	....	....	....	....	9.0	13	7.1	2.5	1.6	1.8
6....	3.5	....	....	....	....	....	8.6	10	7.1	2.3	2.3	1.6
7....	3.5	....	....	....	....	....	8.2	8.6	6.7	2.1	3.5	1.8
8....	4.0	....	....	....	....	....	7.1	8.2	6.0	2.3	2.3	1.6
9....	5.0	....	....	....	....	....	6.0	8.2	6.0	2.6	1.6	1.6
10....	4.2	....	....	....	....	....	4.5	7.9	5.6	2.8	1.6	2.6
11....	4.2	....	....	....	....	....	5.0	7.5	5.6	2.6	1.6	2.6
12....	4.0	....	....	....	....	....	4.7	7.5	5.6	2.6	1.6	2.3
13....	4.2	....	....	....	....	....	6.3	7.5	5.2	2.6	1.3	2.6
14....	4.2	....	....	....	....	....	8.2	7.1	5.2	2.8	1.1	3.0
15....	4.5	....	....	....	....	....	9.0	6.0	4.7	2.1	1.4	2.8
16....	4.2	....	....	....	....	....	7.9	6.3	4.5	2.0	1.1	2.5
17....	4.0	....	....	....	....	....	5.2	7.1	5.2	2.3	1.4	2.6
18....	4.0	....	....	....	....	....	4.7	10	4.0	2.3	2.0	3.8
19....	4.0	....	....	....	....	....	7.9	9.0	3.5	2.5	2.1	3.5
20....	3.8	....	....	....	....	....	9.6	9.0	3.8	2.1	2.5	2.8
21.. ..	3.5	....	....	....	....	....	11	9.6	3.3	3.8	2.5	2.6
22....	3.8	....	....	....	....	....	9.0	12	4.2	2.1	2.1	2.6
23....	3.5	....	....	....	....	....	8.2	14	3.8	2.5	3.3	3.3
24....	3.5	....	....	....	....	....	7.9	13	3.0	2.0	4.7	3.0
25....	3.3	....	....	....	....	Mar. 27	7.1	9.0	3.8	1.8	3.8	3.5
26....	3.8	....	....	....	....	to 31	7.9	8.6	3.5	2.1	3.0	3.8
27....	2.8	....	....	....	....	6.7	10	11	3.3	2.6	2.4	3.3
28....	2.3	....	....	....	....	5.0	6.7	9.6	2.6	3.0	1.8	2.8
29....	3.3	....	....	....	....	4.7	5.6	8.6	3.5	4.0	0.7	2.8
30....	2.8	....	....	....	....	4.7	5.6	8.2	2.8	3.5	0.8	2.8
31....	4.2	....	....	....	....	6.0	....	7.9	....	3.0	0.9	....
Total	117.9	....	....	....	....	27.1	212.8	273.5	147.2	80.0	64.2	78.1
Mean.	3.80	....	....	....	....	5.42	7.09	8.82	4.91	2.58	2.07	2.60
Max..	5.0	....	....	....	....	6.7	11	14	7.5	4.0	4.7	3.8
Min...	2.3	....	....	....	....	4.7	4.5	5.0	2.6	1.8	0.7	1.6
Acre-ft.	234	....	....	....	....	54	422	542	292	159	127	155

Total run-off for period=1,985 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Carnero Creek Near La Garita, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.9	....	....	....	....	....	32	59	28	8.0	5.1	6.3
2....	8.9	....	....	....	....	....	50	64	24	7.4	4.7	5.7
3....	9.7	....	....	....	....	....	56	64	20	6.8	5.1	4.2
4....	9.3	....	....	....	....	....	66	62	20	6.6	4.4	3.6
5....	10	....	....	....	....	....	46	59	20	6.6	4.0	3.1
6....	10	....	....	....	....	....	42	62	19	5.7	4.4	3.3
7....	27	....	....	....	....	....	28	56	18	5.1	7.4	3.8
8....	38	....	....	....	....	....	28	52	17	5.1	5.1	4.0
9....	28	....	....	....	....	....	52	52	17	4.7	4.0	4.2
10....	19	....	....	....	....	....	47	52	16	3.8	3.1	4.4
11....	18	....	....	....	....	....	34	52	16	3.3	2.6	4.2
12....	18	....	....	....	....	....	34	52	16	2.9	2.4	4.7
13....	19	....	....	....	....	....	47	48	15	2.7	2.1	4.4
14....	19	....	....	....	....	....	50	48	14	2.6	2.1	4.2
15....	20	....	....	....	....	....	31	47	13	2.9	1.9	4.2
16....	21	....	....	....	....	....	25	47	13	3.1	1.8	5.4
17....	22	....	....	....	....	....	25	44	12	3.1	1.6	4.4
18....	22	....	....	....	....	....	32	41	12	3.1	1.6	3.8
19....	21	....	....	....	....	....	28	41	12	2.9	1.5	3.1
20....	21	....	....	....	....	....	36	38	12	2.7	1.5	3.1
21....	20	....	....	....	....	....	53	36	11	2.6	2.7	3.1
22....	20	....	....	....	....	....	59	34	11	2.7	2.9	3.1
23....	18	....	....	....	....	....	61	32	10	2.7	2.4	3.1
24....	19	....	....	....	....	....	44	31	11	2.3	2.9	3.1
25....	20	....	....	....	....	....	42	31	9.1	1.9	3.8	3.1
26....	20	....	....	....	....	....	47	31	8.4	1.9	5.7	3.1
27....	19	....	....	....	....	....	46	28	8.4	3.8	4.9	3.3
28....	19	....	....	....	....	Mar. 30	50	26	9.5	4.2	6.3	3.6
29....	18	....	....	....	....	to 31	61	25	8.4	4.9	8.4	3.8
30....	13	....	....	....	....	17	54	24	8.4	5.4	11	3.8
31....	11	....	....	....	....	18	....	24	....	5.4	8.0	....
Total	566.8	....	....	....	....	35	1306	1362	429.2	126.9	125.4	117.2
Mean.	18.3	....	....	....	....	17.5	43.5	43.9	14.3	4.09	4.05	3.91
Max..	38	....	....	....	....	....	66	64	28	8.0	11	6.3
Min...	8.9	....	....	....	....	....	25	24	8.4	1.9	1.5	3.1
Acre-ft.	1120	....	....	....	....	69	2590	2700	851	252	249	232

Total run-off for period=8,063 acre-feet.

Discharge of Carnero Creek Near La Garita, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.1	3.8	....	....	....	....	13	6.6	6.3	1.9	1.0	1.2
2....	2.9	3.8	....	....	....	....	10	7.1	6.0	1.8	0.8	1.2
3....	2.9	3.3	....	....	....	....	9.5	8.8	5.4	1.5	0.8	1.1
4....	2.9	3.3	....	....	....	....	8.8	9.1	4.9	1.8	0.8	1.0
5....	2.9	3.8	....	....	....	....	8.4	8.4	4.7	1.5	0.8	1.0
6....	3.1	4.0	....	....	....	....	8.0	8.0	4.7	0.8	0.9	1.0
7....	3.1	3.1	....	....	....	....	7.7	7.7	4.7	0.7	2.3	0.9
8....	4.2	....	....	....	....	....	7.1	7.7	4.4	0.6	1.5	1.0
9....	5 4	....	....	....	....	....	6.8	8.8	4.0	0.5	1.0	1.1
10....	4.4	....	....	....	....	....	6.0	8.8	4.0	0.7	0.8	1.1
11....	4.0	....	....	....	....	....	6.8	8.4	3.3	0.8	0.8	1.3
12....	4.0	....	....	....	....	....	6.8	9.5	3.1	0.8	0.8	1.8
13....	4.0	....	....	....	....	....	7.4	9.5	3.1	1.1	0.7	2.3
14....	4.0	....	....	....	....	....	9.1	9.1	3.1	1.3	0.7	2.9
15....	4.0	....	....	....	....	....	9.5	8.4	2.7	1.3	0.7	2.4
16....	4.0	....	....	....	....	....	9.1	8.4	2.7	1.0	0.6	2.1
17....	3.8	....	....	....	....	....	7.7	9.5	2.9	0.7	0.6	2.1
18....	3.8	....	....	....	....	....	8.4	16	2.7	0.7	0.6	2.7
19....	3.6	....	....	....	....	....	10	12	2.3	0.8	0.8	3.3
20....	3.3	....	....	....	....	....	9.9	10	2.1	0.9	1.5	2.6
21....	3.1	....	....	....	....	....	10	10	1.9	0.9	2.1	2.6
22....	3.1	....	....	....	....	....	8.4	13	1.9	1.2	2.4	2.9
23....	3.1	....	....	....	....	....	8.0	15	1.9	1.3	2.7	4.2
24....	3.6	....	....	....	....	....	8.4	12	1.6	1.2	4.0	3.8
25....	3.3	....	....	....	....	Mar. 27	9.5	9.5	1.6	0.9	3.3	3.3
26....	4.0	....	....	....	....	to 31	10	8.8	1.6	0.9	2.6	3.1
27....	3.8	....	....	....	....	14	9.9	9.1	1.8	1.0	2.3	2.7
28....	3.8	....	....	....	....	15	7.7	8.8	1.5	2.3	1.8	2.6
29....	4.2	....	....	....	....	16	6.8	8.4	1.3	2.3	1.3	2.4
30....	4.0	Nov. 1	....	....	....	13	6.8	7.7	1.3	1.5	1.2	2.4
31....	3.8	to 7	....	....	....	14	....	7.1	....	1.2	1.2	....
Total	113.2	25.1	....	....	....	72	255.5	291.2	93.4	35.9	43.4	64.1
Mean.	3.65	3.59	....	....	....	14.4	8.52	9.39	3.11	1.16	1.40	2.14
Max..	5.4	4.0	....	....	....	16	13	16	6.3	2.3	4.0	4.2
Min...	2.9	3.1	....	....	....	13	6.0	6.6	1.3	0.5	0.6	0.9
Acre-ft.	225	50	....	....	....	143	507	578	185	71	86	127

Total run-off for period=1,940 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Saguache Creek Near Saguache, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	46	55	....	....	....	....	92	215	190	65	55	40
2....	46	59	....	....	....	....	153	234	167	60	49	40
3....	51	54	....	....	....	....	180	234	145	59	50	36
4....	51	51	....	....	....	....	213	221	148	53	46	34
5....	49	63	....	....	....	....	157	221	160	50	42	32
6....	53	45	....	....	....	....	155	232	150	47	45	32
7....	116	35	....	....	....	....	98	215	134	44	62	30
8....	145	50	....	....	....	....	83	202	129	41	54	30
9....	96	68	....	....	....	....	116	202	132	40	44	30
10....	71	59	....	....	....	....	132	218	125	40	40	34
11....	66	56	....	....	....	....	83	221	125	39	38	36
12....	59	49	....	....	....	....	85	221	125	38	37	38
13....	59	38	....	....	....	....	113	205	116	36	38	38
14....	60	....	....	....	....	....	136	195	111	36	39	36
15....	65	....	....	....	....	....	102	190	102	38	38	39
16....	69	....	....	....	....	....	79	200	100	40	38	39
17....	69	....	....	....	....	....	59	190	90	39	38	38
18....	60	....	....	....	....	....	60	182	94	38	35	39
19....	59	....	....	....	....	....	65	190	90	36	34	36
20....	56	....	....	....	....	....	76	200	85	35	36	35
21....	56	....	....	....	....	....	102	205	81	34	39	34
22....	56	....	....	....	....	....	143	208	76	34	39	34
23....	54	....	....	....	....	....	174	202	79	34	38	32
24....	51	....	....	....	....	....	134	187	87	31	37	32
25....	53	....	....	....	....	....	113	174	76	31	39	32
26....	53	....	....	....	....	....	127	170	71	34	44	31
27....	54	....	....	....	....	Mar. 29	143	157	68	37	45	31
28....	54	....	....	....	....	to 31	172	160	68	49	49	30
29....	54	....	....	....	....	77	213	165	63	59	51	29
30....	56	Nov. 1	....	....	....	62	213	162	66	62	47	31
31....	56	to 13	....	....	....	66	....	170	....	62	43	....
Total	1943	682	....	....	....	205	3771	6148	3253	1341	1329	1028
Mean.	62.7	52.5	....	....	....	68.3	126	198	108	43.3	42.9	34.3
Max..	145	68	....	....	....	77	213	234	190	65	62	40
Min...	46	35	....	....	....	62	59	157	63	31	34	29
Acre-ft.	3850	1350	....	....	....	407	7480	12190	6450	2660	2640	2040

Total run-off for period=39,067 acre-feet.

Discharge of Saguache Creek Near Saguache, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	29	29	....	....	....	....	26	31	47	26	23	21
2....	28	29	....	....	....	....	29	31	45	25	20	21
3....	28	28	....	....	....	....	25	36	44	18	18	21
4....	27	27	....	....	....	....	25	47	40	17	18	21
5....	28	26	....	....	....	....	26	55	39	17	19	18
6....	28	31	....	....	....	....	28	56	37	18	22	15
7....	28	30	....	....	....	....	32	55	37	17	29	17
8....	29	26	....	....	....	....	32	54	33	16	26	17
9....	31	31	....	....	....	....	32	54	34	15	22	16
10....	30	27	....	....	....	....	31	54	34	15	18	15
11....	28	24	....	....	....	....	26	59	33	15	18	15
12....	30	25	....	....	....	....	26	56	33	15	19	14
13....	30	26	....	....	....	....	29	54	33	15	17	15
14....	30	25	....	....	....	Mar. 16	34	55	32	15	17	18
15....	30	23	....	....	....	to 31	42	56	32	14	17	18
16....	29	26	....	....	....	33	40	57	32	16	17	18
17....	29	....	....	....	....	33	38	66	30	17	19	16
18....	30	....	....	....	....	30	32	80	28	17	25	17
19....	31	....	....	....	....	26	34	66	27	21	25	22
20....	31	....	....	....	....	25	38	56	26	18	24	23
21....	30	....	....	....	....	26	45	55	27	21	25	21
22....	31	....	....	....	....	25	45	57	31	24	31	24
23....	31	....	....	....	....	25	38	57	31	22	33	30
24....	30	....	....	....	....	25	40	55	29	22	28	28
25....	30	....	....	....	....	29	43	62	27	21	34	25
26....	31	....	....	....	....	31	43	56	24	21	35	24
27....	33	....	....	....	....	33	43	60	25	31	31	24
28....	25	....	....	....	....	30	39	51	24	35	26	24
29....	31	....	....	....	....	25	36	48	21	32	23	30
30....	28	Nov. 1	....	....	....	23	34	48	22	31	21	36
31....	30	to 16	....	....	....	24	....	46	....	27	21	....
Total	914	433	....	....	....	443	1031	1673	957	634	721	624
Mean.	29.5	27.1	....	....	....	27.7	34.4	54.0	31.9	20.5	23.3	20.8
Max..	33	....	....	....	....	....	45	80	47	35	35	36
Min...	25	....	....	....	....	....	25	31	21	14	17	14
Acre-ft.	1810	859	....	....	....	879	2040	3320	1900	1260	1430	1240

Total run-off for period=14,740 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Kerber Creek at Ashley Ranch Near Villa Grove, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.6	....	....	....	....	....	12	49	48	12	6.6	3.7
2....	7.6	....	....	....	....	....	15	40	43	10	6.2	3.7
3....	8.3	....	....	....	....	....	18	39	44	9.4	6.2	2.7
4....	9.0	....	....	....	....	....	18	31	61	9.8	5.4	2.7
5....	8.6	....	....	....	....	....	17	33	53	9.8	5.1	2.6
6....	13	....	....	....	....	....	15	40	54	8.9	5.7	2.9
7....	30	....	....	....	....	....	14	39	45	8.0	6.6	2.7
8....	23	....	....	....	....	....	16	41	41	8.5	5.7	3.5
9....	17	....	....	....	....	....	19	45	31	8.0	4.0	4.9
10....	16	....	....	....	....	....	15	55	24	8.9	4.0	4.0
11....	15	....	....	....	....	....	14	73	22	7.1	3.7	4.9
12....	15	....	....	....	....	....	18	64	20	8.0	4.0	4.6
13....	17	....	....	....	....	....	20	64	19	6.6	4.0	4.6
14....	17	....	....	....	....	....	20	67	16	6.6	3.7	4.3
15....	18	....	....	....	....	....	17	72	15	7.1	3.7	4.6
16....	21	....	....	....	....	....	16	64	14	6.6	3.7	4.0
17....	21	....	....	....	....	....	16	64	14	6.2	3.5	3.7
18....	21	....	....	....	....	....	23	64	13	6.2	3.2	3.5
19....	21	....	....	....	....	....	20	67	13	6.2	3.2	3.7
20....	20	....	....	....	....	....	24	70	12	5.1	3.5	3.7
21....	18	....	....	....	....	....	30	66	12	4.6	3.7	3.5
22....	18	....	....	....	....	....	37	66	12	4.6	4.0	3.2
23....	17	....	....	....	....	....	40	67	13	4.0	2.7	2.9
24....	17	....	....	....	....	....	37	64	15	3.7	2.9	2.9
25....	17	....	....	....	....	....	35	60	15	4.3	3.7	2.9
26....	17	....	....	....	....	....	35	50	14	4.6	6.2	3.5
27....	16	....	....	....	....	....	39	46	13	4.9	4.3	3.5
28....	16	....	....	....	....	Mar. 30	45	45	13	9.8	4.0	3.2
29....	13	....	....	....	....	to 31	38	45	12	9.4	3.7	3.2
30....	13	....	....	....	....	6.6	50	45	12	15	4.0	3.2
31....	11	....	....	....	....	6.6	....	54	....	8.9	3.7	....
Total	499.1	....	....	....	....	13.2	733	1689	733	232.8	134.6	107.0
Mean.	16.1	....	....	....	....	6.6	24.4	54.5	24.4	7.51	4.34	3.57
Max..	30	....	....	....	....	6.6	50	73	61	15	6.6	4.9
Min...	7.6	....	....	....	....	6.6	12	31	12	3.7	2.7	2.6
Acre-ft.	990	....	....	....	....	26	1450	3350	1450	462	267	212

Total run-off for period=8,207 acre-feet.

Discharge of Kerber Creek at Ashley Ranch Near Villa Grove, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.5	2.3	....	....	....	....	6.0	12	22	5.1	2.6	3.2
2....	3.2	2.6	....	....	....	....	5.7	13	22	4.9	2.3	2.9
3....	2.9	2.4	....	....	....	....	5.7	15	21	4.3	2.4	2.7
4....	2.7	1.9	....	....	....	....	5.3	16	18	4.0	1.9	2.6
5....	2.7	2.1	....	....	....	....	5.1	19	17	3.7	1.9	2.4
6....	2.7	2.7	....	....	....	....	4.6	20	16	5.1	2.4	2.4
7....	2.7	1.9	....	....	....	....	4.6	22	15	4.6	3.7	2.4
8....	4.0	1.6	....	....	....	....	4.9	22	14	3.7	2.6	2.3
9....	4.0	2.1	....	....	....	....	4.6	22	13	2.9	2.3	2.7
10....	2.9	1.8	....	....	....	....	3.7	23	13	2.7	2.1	2.7
11....	2.7	1.9	....	....	....	....	4.6	23	12	2.9	2.3	2.7
12....	2.9	2.1	....	....	....	....	5.4	26	12	2.9	1.6	3.7
13....	3.2	1.9	....	....	....	....	7.5	25	12	2.7	1.3	4.0
14....	3.5	....	....	....	....	....	8.9	25	12	2.4	1.2	4.0
15....	3.7	....	....	....	....	....	8.5	26	16	2.4	1.3	2.7
16....	3.5	....	....	....	....	....	7.5	28	16	2.6	1.2	2.7
17....	3.5	....	....	....	....	....	8.0	30	12	2.7	1.2	2.7
18....	3.5	....	....	....	....	....	9.4	28	12	2.1	1.6	3.5
19....	3.5	....	....	....	....	....	12	23	9.8	2.3	2.4	3.7
20....	3.5	....	....	....	....	....	14	21	9.4	2.6	2.3	3.2
21....	3.2	....	....	....	....	....	15	21	8.9	3.7	2.3	4.0
22....	3.5	....	....	....	....	....	15	19	9.4	2.7	4.6	8.5
23....	3.5	....	....	....	....	....	15	19	8.5	2.7	7.5	5.4
24....	3.5	....	....	....	....	....	16	18	8.0	2.6	5.1	5.7
25....	3.2	....	....	....	....	....	15	18	7.1	2.1	6.6	4.9
26....	4.6	....	....	....	....	....	15	19	7.1	2.1	5.1	4.6
27....	3.7	....	....	....	....	....	15	21	5.7	2.9	4.0	4.3
28....	2.8	....	....	....	....	....	12	21	5.7	2.9	3.7	4.3
29....	3.8	....	....	....	....	....	12	20	5.7	2.7	3.5	4.3
30....	3.6	Nov. 1	....	....	....	....	12	21	5.7	4.9	3.2	5.1
31....	3.7	to 13	....	....	....	....	....	22	....	4.0	3.2	....
Total	103.9	27.3	....	....	....	....	278.0	658	366.0	99.9	89.4	110.3
Mean.	3.35	2.10	....	....	....	....	9.27	21.2	12.2	3.22	2.88	3.68
Max..	4.6	2.7	....	....	....	....	16	30	22	5.1	7.5	8.5
Min...	2.7	1.6	....	....	....	....	3.7	12	5.7	2.1	1.2	2.3
Acre-ft.	206	54	....	....	....	....	551	1310	726	198	177	219

Total run-off for period=3,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Crestone Creek Near Crestone, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	11	....	....	....	....	5.8	42	45	14	7.2	3.4
2....	10	11	....	....	....	....	6.0	45	42	14	7.7	3.0
3....	10	11	....	....	....	....	6.8	39	48	14	7.2	2.5
4....	9.8	10	....	....	....	....	7.7	35	55	14	6.4	2.3
5....	9.5	9.2	....	....	....	....	7.9	38	55	14	6.0	2.5
6....	9.2	9.2	....	....	....	....	8.8	36	43	13	5.8	3.2
7....	11	....	....	....	....	....	7.4	29	36	13	5.8	3.2
8....	15	....	....	....	....	....	7.0	32	34	13	5.2	4.2
9....	14	....	....	....	....	....	7.9	41	36	13	4.6	4.2
10....	14	....	....	....	....	....	7.2	46	34	12	4.2	4.2
11....	14	....	....	....	....	....	6.6	40	34	12	3.6	4.0
12....	14	....	....	....	....	....	6.6	34	33	11	3.2	3.8
13....	15	....	....	....	....	....	7.7	35	34	10	3.2	4.2
14....	17	....	....	....	....	....	8.5	35	34	9.2	3.2	12
15....	21	....	....	....	....	....	7.9	36	32	8.8	2.8	20
16....	31	....	....	....	....	....	6.8	36	29	8.5	2.6	16
17....	34	....	....	....	....	....	6.2	35	27	7.9	2.3	14
18....	29	....	....	....	....	....	6.0	47	25	7.4	2.3	13
19....	26	....	....	....	....	....	6.2	56	21	7.2	2.1	12
20....	22	....	....	....	....	....	7.4	55	18	6.8	2.5	11
21....	20	....	....	....	....	....	12	54	16	6.8	3.4	10
22....	17	....	....	....	....	....	16	52	16	6.8	3.4	9.2
23....	16	....	....	....	....	....	18	47	18	6.2	2.6	8.5
24....	15	....	....	....	....	....	13	29	18	5.6	2.1	7.9
25....	14	....	....	....	....	....	12	32	17	5.6	2.3	7.9
26....	14	....	....	....	....	....	12	26	16	5.8	3.6	8.3
27....	14	....	....	....	....	....	17	26	15	7.0	4.2	7.4
28....	13	....	....	....	....	....	36	28	14	7.0	4.0	7.2
29....	13	....	....	....	....	....	45	39	14	7.4	4.6	7.2
30....	12	Nov. 1	....	....	....	....	42	45	15	9.8	4.0	7.0
31....	12	to 6	....	....	....	....	....	43	....	7.9	3.4	....
Total	496.5	61.4	....	....	....	....	365.4	1213	874	298.7	125.5	223.3
Mean.	16.0	10.2	....	....	....	....	12.2	39.1	29.1	9.64	4.05	7.44
Max..	34	11	....	....	....	....	45	56	55	14	7.7	20
Min...	9.2	9.2	....	....	....	....	5.8	26	14	5.6	2.1	2.3
Acre-ft.	985	122	....	....	....	....	725	2410	1730	592	249	443

Total run-off for period=7,256 acre-feet.

Discharge of North Crestone Creek Near Crestone, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.8	3.6	....	....	....	....	5.2	12	47	15	6.2	6.4
2....	6.6	3.6	....	....	....	....	5.4	18	43	13	6.0	6.1
3....	6.6	3.6	....	....	....	....	5.0	33	40	12	5.6	6.1
4....	6.2	3.6	....	....	....	....	5.0	41	34	12	5.2	5.8
5....	6.2	3.6	....	....	....	....	4.8	40	32	11	5.2	5.4
6....	5.8	3.8	....	....	....	....	4.8	34	31	9.6	5.4	5.3
7....	5.2	3.8	....	....	....	....	4.6	35	29	9.4	5.7	5.7
8....	5.6	3.8	....	....	....	....	4.4	33	27	9.2	5.1	6.1
9....	5.8	4.0	....	....	....	....	4.2	34	25	8.8	4.6	5.8
10....	5.2	4.0	....	....	....	....	4.2	41	22	8.6	4.6	6.1
11....	5.2	4.0	....	....	....	....	4.0	41	21	8.6	4.6	6.1
12....	5.2	4.2	....	....	....	....	3.8	40	23	9.4	4.2	5.8
13....	5.2	4.2	....	....	....	....	4.0	43	27	11	3.8	6.0
14....	4.8	4.2	....	....	....	....	4.6	43	30	9.4	3.5	6.1
15....	4.4	4.6	....	....	....	....	5.2	43	29	9.0	3.4	5.8
16....	4.4	....	....	....	....	....	4.8	42	25	8.6	3.6	5.4
17....	4.2	....	....	....	....	....	4.6	41	22	8.2	3.6	6.0
18....	3.8	....	....	....	....	....	5.4	35	21	7.8	3.7	6.1
19....	4.0	....	....	....	....	....	8.3	33	18	7.3	3.8	6.0
20....	4.0	....	....	....	....	....	12	32	18	7.2	4.4	5.7
21....	4.0	....	....	....	....	....	12	30	18	7.4	4.9	6.2
22....	4.0	....	....	....	....	....	13	29	18	7.0	4.9	8.0
23....	4.0	....	....	....	....	....	15	29	18	6.6	6.4	9.2
24....	4.0	....	....	....	....	....	17	29	17	6.1	9.2	11
25....	3.8	....	....	....	....	Mar. 27	18	29	17	5.8	12	15
26....	3.8	....	....	....	....	to 31	20	31	15	6.6	10	16
27....	3.8	....	....	....	....	5.8	19	33	14	7.6	9.4	15
28....	3.6	....	....	....	....	5.8	15	36	13	7.2	8.8	14
29....	3.8	....	....	....	....	5.4	14	41	14	6.7	8.0	13
30....	3.4	Nov. 1	....	....	....	5.4	12	45	16	7.3	7.3	14
31....	3.6	to 15	....	....	....	5.4	....	47	....	6.7	7.0	....
Total	147.0	58.6	....	....	....	27.8	259.3	1093	724	270.1	180.1	239.2
Mean.	4.74	3.91	....	....	....	5.56	8.64	35.3	24.1	8.71	5.81	7.97
Max..	6.8	4.6	....	....	....	5.8	20	47	47	15	12	16
Min...	3.4	3.6	....	....	....	5.4	3.8	12	13	5.8	3.4	5.3
Acre-ft.	292	116	....	....	....	55	514	2170	1440	536	357	474

Total run-off for period=5,950 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

COLORADO RIVER BASIN

COLORADO RIVER NEAR GRAND LAKE, COLORADO

Location—Water stage recorder in Sec. 13, T. 3 N., R. 76 W., 3 miles south of Grand Lake, Grand Lake Outlet enters ½ mile downstream.

Drainage Area—101 square miles.

Records Available—August, 1904, to September, 1909; October, 1910, to September 30, 1918; May 11, 1934, to September 30, 1940.

Maximum discharge observed during period 1904-09, 1910-18, 1934-40; 1,840 second feet, June 15, 16, 1918. Gage height 7.00 feet, former site and datum.

Maximum Discharge—Year 1939; 557 second feet, June 1, 1939. Gage height 4.12 feet.

Maximum Discharge—Year 1940; 406 second feet, June 3, 1940. Gage height 3.79 feet.

Accuracy — Records considered excellent except those for period of ice effect, November 6-9, November 12, 1938, to March 29, 1939, October 30, 31, November 9-30, December 3-20, December 21, 24, 27, 28, January 7, 8, 11-23, February 14-27, March 3-5, 7-8, 11-16, 1940, computed on basis of 3 and 2 discharge measurements, and weather records, and which are good.

Diversions for irrigation above station. Grand River Trans-Mountain diversion from headwaters into Cache la Poudre River Basin.

COLORADO RIVER NEAR GRANBY, COLORADO

Location—Water stage recorder in Sec. 22, T. 2 N., R. 76 W., 4 miles northeast of Granby and 1½ miles upstream from Willow Creek.

Drainage Area—322 square miles.

Records Available—June, 1908, to September, 1911; May 12, 1934, to September 30, 1940.

Maximum discharge observed during period 1908-11, 1934-40; 4,100 second feet, June 20, 1909. Gage height 5.50 feet (former datum).

Maximum Discharge—Year 1939; 2,070 second feet, June 1, 1939. Gage height 3.87 feet.

Maximum Discharge—Year 1940; 1,860 second feet, June 2, 1940. Gage height 3.68 feet.

Accuracy—Records considered excellent except for period of ice effect, November 13, 1938, to April 1, 1939, and November 10-15, November 18, 1939, to April 15, 1940, which were computed on basis of 4 discharge measurements, weather records, and records for stations near Grand Lake and Hot Sulphur Springs, and are fair.

Diversions for irrigation above station.

COLORADO RIVER NEAR HOT SULPHUR SPRINGS, COLORADO.

Location—Water stage recorder in Sec. 1, T. 1 N., R. 78 W., 1 mile east of Hot Sulphur Springs at Thompson's ranch, and 3 miles upstream from Beaver Creek.

Drainage Area—782 square miles. Altitude, 7,680 feet above mean sea level.

Records Available—July, 1904, to September, 1909; September, 1910, to September, 1924; October, 1925, to September 30, 1940. Chain gage prior to September 19, 1930, 1½ miles downstream from present site. Records comparable.

Maximum discharge observed during period 1904-09, 1910-24, 1925-40; 10,300 second feet, June 15, 1921. Gage height 8.7 feet, former site and datum.

Maximum Discharge—Year 1939; 3,630 second feet, June 1, 1939. Gage height 3.74 feet.

Maximum Discharge—Year 1940; 2,820 second feet, June 2, 1940. Gage height 3.29 feet.

Accuracy—Records considered good, except for ice effect period November 13, 1938, to March 31, 1939; November 16, 1939. to March 25, 1940, which were computed on basis of 4 and 5 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

COLORADO RIVER AT GLENWOOD SPRINGS, COLORADO

Location—Water stage recorder in Sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, opposite D. & R. G. W. R. R. depot, ½ mile above mouth of Roaring Fork.

Drainage Area—4,560 square miles. Zero of gage is 5,720.71 feet above mean sea level.

Records Available—May 12, 1899, to September 30, 1940.

Maximum discharge observed during period 1899-1940; 30,100 second feet, June 14, 15, 1918. Gage height 12.55 feet.

Maximum Discharge—Year 1939; 13,100 second feet, May 23, 1939. Gage height 8.48 feet.

Maximum Discharge—Year 1940; 11,100 second feet, June 3, 1940. Gage height 7.90 feet.

Accuracy—Records considered excellent.

Diversion for irrigation and trans-mountain diversion above station. During low-water period flow is regulated by Shoshone Power Plant, 6 miles upstream.

COLORADO RIVER NEAR CAMEO, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 97 W., 6.7 miles northeast of Cameo and 3.4 miles above mouth of Plateau Creek.

Drainage Area—8,055 square miles.

Records Available—October, 1933, to September 30, 1940.

Maximum discharge observed during period 1933-40; 36,000 second feet June 16, 1935. Gage height 10.91 feet.

Maximum Discharge—Year 1939; 19,900 second feet, May 23, 1939. Gage height 8.44 feet.

Maximum Discharge—Year 1940; 16,600 second feet, June 3, 1940. Gage height 7.82 feet.

Accuracy—Records considered excellent except for periods of ice effect, November 25 to December 5, December 17, 1938, to March 18, 1939, and December 18, 19, December 26, 1939, to January 5, January 15 to February 10, 1940, computed on basis of combined flow of Colorado River and Roaring Fork at Glenwood Springs.

Diversions for irrigation above station.

COLORADO RIVER NEAR CISCO, UTAH

Location—Water stage recorder in NW¼ Sec. 17, T. 23 S., R.24 E., Salt Lake Meridian, 1 mile below mouth of Dolores River and 11 miles south of Cisco.

Drainage Area—24,100 square miles. Altitude, 4,088 feet above mean sea level.

Records Available—November, 1914, to September, 1917; October, 1922, to September, 30, 1940.

Maximum discharge observed during period 1914-17, 1922-40; 76,800 second feet, June 19, 1917. Gage height 19.7 feet.

Maximum Discharge—Year 1939; 25,400 second feet, May 24, 1939. Gage height 9.63 feet.

Maximum Discharge—Year 1940; 25,390 second feet, May 14, 1940. Gage height 9.37 feet.

Accuracy—Records considered excellent except those for period of ice effect December to March, computed on basis of records for other stations and discharge measurements.

Diversions for irrigation above station.

ARAPAHOE CREEK BELOW MONARCH LAKE, COLORADO

Location—Water stage recorder in SE¼ Sec. 15, T. 2 N., R. 75 W., 700 feet below mouth of Roaring Fork and 10 miles of Granby.

Drainage Area—59 square miles. Zero of gage is 8,244.30 feet above mean sea level.

Records Available—June, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40, 1,380 second feet, June 22, 1938. Gage height 4.31 feet.

Maximum Discharge—Year 1939; 628 second feet, May 31, 1939. Gage height 2.73 feet.

Maximum Discharge—Year 1940; 686 second feet, June 2, 1940. Gage height 2.74 feet.

Accuracy—Records considered good, except for ice period November 6-9, 11-16, November 20, 1938, to April 1, 1939 (computed on basis of discharge measurements and weather records), and those for April 19 to April 24, 1939 (estimated). Those for period of ice effect December 13 to April 6, 1940, were computed on basis of 3 discharge measurements and weather records.

Small diversions for irrigation above station. Flow partly regulated by Monarch Lake. Several second feet diverted around station by power canal during summer.

WILLOW CREEK NEAR GRANBY, COLORADO

Location—Water stage recorder in NW¼ Sec. 34, T. 3 N., R.77 W., at highway bridge 7 miles northwest of Granby. Gold Run Creek enters 100 feet above station.

Drainage Area—105 square miles. Zero of gage is 8,240.99 feet above mean sea level.

Records Available—April, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 811 second feet, May 16, 1938. Gage height 4.49 feet.

Maximum Discharge—Year 1939; 563 second feet, May 20, 1939. Gage height 3.69 feet.

Maximum Discharge—Year 1940; 303 second feet, May 13, 1940. Gage height 2.81 feet.

Accuracy—Records considered good except those for ice effect period November 7, 1938, to March 29, 1939 (computed on basis of 3 discharge measurements and weather records), and for October 30, 31, November 10, 1939, to March 27, 1940 (computed on basis of 3 discharge measurements and weather records), and are fair.

Diversions for irrigation of hay meadows above station.

FRASER RIVER NEAR WINTER PARK (WEST PORTAL) (ARROW), COLORADO

Location—Water stage recorder in NE¼ Sec. 4, T. 2 S., R. 75 W., 1½ miles northwest of Winter Park and 2½ miles downstream from point of diversion for Moffat Tunnel.

Drainage Area—28 square miles. Altitude, 9,500 feet above mean sea level.

Records Available—September 23, 1910, to September 30, 1940.

Maximum discharge observed during period 1910-40; 820 second feet, June 13, 1918. Gage height 2.9 feet.

Maximum Discharge—Year 1939; 167 second feet, June 5, 1939. Gage height 1.44 feet.

Maximum Discharge—Year 1940; 35 second feet, April 19, 1940. Gage height 0.71 feet.

Accuracy—Records considered good, except those for period of ice effect during November, 1938, to April, 1939, November 10, 1939, to January 26, 1940, February 10 to March 17 and April 12, computed on basis of 3 discharge measurements, weather records and records for adjacent stations, and are fair.

Trans-Mountain diversions above station. The Pioneer Bore of the Moffat Tunnel has diverted water above this station since June 9, 1936. The combined flow of this diversion and Fraser River is comparable with records prior to June 9, 1936.

FRASER RIVER AT GRANBY, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 N., R. 76½ W., 300 feet below county bridge, ½ mile southwest of Granby. Fraser River enters Colorado River 2½ miles downstream.

Drainage Area—285 square miles.

Records Available—August, 1904, to September, 1909, September 15, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,080 second feet, May 30, 1938. Gage height 2.76 feet.

Maximum Discharge—Year 1939; 984 second feet, June 1, 1939. Gage height 2.60 feet.

Maximum Discharge—Year 1940; 517 second feet June 3, 1940. Gage height 1.88 feet.

Accuracy—Records considered excellent except for ice effect period from November 14, 1938, to March 31, 1939, and those for period of ice effect October 31, 1939, November 1, 2, November 10 to March 28, 1940, computed on basis of 4 discharge measurements and weather records, and by comparison with records of adjacent stations.

Trans-mountain diversions above station as well as diversions for irrigation.

VASQUEZ CREEK NEAR WINTER PARK, COLORADO

Location—Water stage recorder in NW¼ Sec. 33, T. 1 S., R. 75 W., just below main highway, 2½ miles northwest of Winter Park, and ¼ mile above mouth. Station is 1½ miles downstream from point of Moffat Tunnel diversion. Present gage is ¾ mile downstream from site used in 1907-9.

Drainage Area—27.8 square miles. Zero of gage is 8,768.48 feet above mean sea level.

Records Available—June, 1907, to October, 1909; August, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 396 second feet, June 15, 1935. Gage height 2.64 feet.

Maximum Discharge—Year 1939; no maximum determined on account of bridge construction.

Maximum Discharge—Year 1940; 19 second feet, April 22, 1940. Gage height 1.12 feet.

Accuracy—Records considered good except those for ice effect period, November 3-28, 1938, December 11-15, and October 27, 1939, to March 2, 1940, March 12-16, computed on basis of 2 discharge measurements, weather records and records for Fraser River near West Portal, and are fair. The Pioneer Bore of Moffat Tunnel started diverting water above this station May 26, 1937. Records of combined flow of this diversion and of Vasquez Creek are equivalent to records of flow of creek prior to May 26, 1937. See Correction Table published with runoff data for this station.

ST. LOUIS CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 S., R. 76 W., ⅓ mile below junction of East and West Branches and 4½ miles southwest of Fraser. In 1907-9 site maintained 2 miles upstream. Records not comparable.

Drainage Area—32.8 square miles.

Records Available—June, 1907, to September, 1909; August, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 353 second feet, June 15, 1935. Gage height 2.58 feet.

Maximum Discharge—Year 1939; 256 second feet, May 31, 1939. Gage height 2.32 feet.

Maximum Discharge—Year 1940; 175 second feet, June 2, 1940. Gage height 2.02 feet.

Accuracy—Records considered good except those for periods of ice effect November 3 to December 6, December 14-16, 27, 1938; January 24-26, March 1-6, and October 28, 30, 31, November 1, 3, 4, November 7 to December 29, 1939; January 18-19, 29-31, February 1, 2, 17, March 4, 5, 12-16, April 12, 1940, computed on basis of 1 discharge measurement, weather records, and are fair.

RANCH CREEK ABOVE FORKS NEAR FRASER, COLORADO

Location—Water stage recorder in SW¼ Sec. 24, T. 1 S., R. 75W., 0.8 miles upstream from North Fork and 4 miles east of Fraser.

Drainage Area—3.8 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 67 second feet, June 21, 1938. Gage height 3.45 feet.

Maximum Discharge—Year 1939; 34 second feet, May 31, 1939. Gage height 2.73 feet.

Maximum Discharge—Year 1940; 46 second feet, June 4, 1940. Gage height 1.95 feet.

Accuracy—Records considered fair. For periods of ice effect records computed on basis of 2 discharge measurements and records for station on Ranch Creek near Fraser.

No diversions for irrigation above station.

RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in NE¼ Sec. 22, T. 1 S., R. 75 W., 150 yards downstream from junction of South Fork and Ranch Creeks and 3 miles east of Fraser at Arkall Ranch.

Drainage Area—19.9 square miles.

Records Available—August, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 299 second feet, June 15, 1935. Gage height 3.37 feet.

Maximum Discharge—Year 1939; 184 second feet, May 31, 1939. Gage height 2.68 feet.

Maximum Discharge—Year 1940; 266 second feet, June 21, 1938. Gage height 3.35 feet.

Accuracy—Records considered good, except for periods of ice effect November 6-10, 1938, and for period of ice effect October 28, 30, 31, November 4, November 7 to January 5, 1940, computed on basis of weather records and records for adjacent stations, and which are fair.

No diversions above station.

RANCH CREEK NEAR TABERNASH, COLORADO

Location—Water stage recorder in Sec. 6, T. 1 S., R. 75 W., ¼ mile upstream from Meadow Creek and 1½ miles east of Tabernash.

Drainage Area—50.7 square miles.

Records Available—September, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 506 second feet, June 15, 1935. Gage height 4.40 feet.

Maximum Discharge—Year 1939; 324 second feet, May 31, 1939. Gage height 3.70 feet.

Maximum Discharge—Year 1940; 250 second feet, June 2, 1940. Gage height 3.37 feet.

Accuracy—Records considered good, except those for periods of ice effect, October 24, 1938, to February 10, 1939, March 20 to April 10, 1939, and November 22 to April 3, 1940, April 12-15, 1940, computed on basis of 3 discharge measurements, weather records, and records for station near Fraser, and are fair.

Diversions for irrigation above station.

NORTH FORK OF RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in NE¼ Sec. 23, T. 1 S., R. 75 W., 0.6 mile above mouth and 4 miles east of Fraser.

Drainage Area—3.4 square miles.

Records Available—April, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 62 second feet, June 21, 1938. Gage height 2.00 feet.

Maximum Discharge—Year 1939; 38 second feet, May 31, 1939. Gage height 1.75 feet.

Maximum Discharge—Year 1940; 31 second feet, June 2, 1940. Gage height 1.68 feet.

Accuracy—Records considered good above 10 second feet, and fair below.

No diversions above station.

MIDDLE FORK OF RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder on line between Sections 25 and 26, T. 1 S., R. 75 W., 1.6 miles above mouth of South Fork and 4.2 miles east of Fraser.

Drainage Area—4.4 square miles.

Records Available—April, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 124 second feet, June 21, 1938. Gage height 1.88 feet.

Maximum Discharge—Year 1939; 68 second feet, May 31, 1939. Gage height 1.51 feet.

Maximum Discharge—Year 1940; 110 second feet, June 3, 1940. Gage height 1.75 feet.

Accuracy—Records considered good except those for period of ice effect, October 25, 1938, to April 24, 1939, October 27-31, 1939, and April 29 to May 19, 1940, computed on basis of record for Ranch Creek near Fraser, and are fair.

No diversions above station.

SOUTH FORK OF RANCH CREEK NEAR WINTER PARK, COLORADO

Location—Water stage recorder in SE¼ Sec. 35, T. 1 S., R. 75 W., 2.8 miles above mouth and 5 miles northeast of West Portal.

Drainage Area—2.4 square miles.

Records Available—November, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 59 second feet, June 1, 1938. Gage height 1.43 feet.

Maximum Discharge—Year 1939; 58 second feet, May 22, 1939. Gage height 1.36 feet.

Maximum Discharge—Year 1940; 24 second feet, June 1, 1940. Gage height 1.14 feet.

Accuracy—Records considered good except for ice effect period October 25-31, 1938, April 1-24, 1939, which were computed on basis of record for station on Ranch Creek near Fraser, and are fair.

No diversions above station.

MEADOW CREEK NEAR TABERNASH, COLORADO

Location—Water stage recorder in Sec. 15, T. 1 N., R. 75 W., 4.3 miles northeast of Tabernash.

Drainage Area—7.0 square miles.

Records Available—May 27, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 197 second feet, June 3, 1938. Gage height 3.67 feet.

Maximum Discharge—Year 1939; 188 second feet, May 31, 1939. Gage height 3.52 feet.

Maximum Discharge—Year 1940; 148 second feet May 31, 1940. Gage height 3.22 feet.

Accuracy—Records considered fair, except those for periods of missing gage heights and ice effect, October 19-22, 1938, November 1 to April 9, 1939, April 23-25, and December 9, 1939, to May 16, 1940, computed on basis of 3 discharge measurements, weather records, and by comparison with flow of Arapahoe Creek near Monarch, and are poor.

No diversions above station.

STRAWBERRY CREEK NEAR GRANBY, COLORADO

Location—Water stage recorder in SW¼ SW¼ Sec. 32, T. 2 N., R. 75 W., 0.6 miles below Little Strawberry Creek, and 6 miles east of Granby.

Drainage Area—12.6 square miles.

Records Available—May 28, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 132 second feet, May 29, 1938. Gage height 2.91 feet.

Maximum Discharge—Year 1939; 71 second feet, May 2, 1939. Gage height 2.12 feet.

Maximum Discharge—Year 1940; 48 second feet, May 11, 1940. Gage height 1.66 feet.

Accuracy—Records considered good except for periods of ice effect, November 9-30, 1938, and from March 23 to April 22, 1940, computed on basis of discharge measurements and weather records, and which are fair.

Two diversions for irrigation above station.

WILLIAMS FORK RIVER BELOW STEELMAN CREEK, COLORADO

Location—Water stage recorder in Sec. 20, T. 3 S., R. 76 W., just below mouth of Steelman Creek, and 7 miles southeast of Leal.

Drainage Area—16.3 square miles.

Records Available—June 23, 1933, to September 30, 1940.

Maximum discharge observed during period 1933-40; 441 second feet, June 21, 1938. Gage height 2.48 feet.

Maximum Discharge—Year 1939; 257 second feet, June 5, 1939. Gage height 2.03 feet.

Maximum Discharge—Year 1940; 68 second feet, June 1, 1940. Gage height 1.35 feet.

Accuracy—Records considered fair. Discharge for periods of ice effect November 3, 1938, to April 26, 1939, and for October 28, 30, 31, November 4, 7, 8, November 11 to April 29, 1940, computed on basis of records for station at Leal.

Trans-Mountain diversion above station by Williams Fork Tunnel which first diverted water on May 10, 1940, to Clear Creek in South Platte basin. The combination of this flow and Williams Fork is comparable with records at this station prior to May 10, 1940. See correction table published with discharge.

WILLIAMS FORK RIVER NEAR LEAL, COLORADO

Location—Water stage recorder in Sec. 31, T. 2 S., R. 77 W., just below mouth of Kinney Creek and 2 miles north of Leal.

Drainage Area—84 square miles.

Records Available—June 19, 1933, to September 30, 1940.

Maximum discharge observed during period 1933-40; 1,530 second feet, June 21, 1938. Gage height 3.49 feet.

Maximum Discharge—Year 1939; 1,030 second feet, May 31, 1939. Gage height 3.20 feet.

Maximum Discharge—Year 1940; 588 second feet, June 2, 1940. Gage height, 2.48 feet.

Accuracy—Records considered excellent except those for period of ice effect, December 14, 18, 1938, February 22, 1939, computed on basis of weather records and records at station below Steelman Creek, and are good.

Diversions for irrigation above station.

WILLIAMS FORK RIVER NEAR PARSHALL, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 S., R. 79 W., just below highway bridge, 2½ miles above mouth of Battle Creek, and four miles south of Parshall.

Drainage Area—184 square miles. Zero of gage is 7,805.00 feet above mean sea level.

Records Available—July, 1904, to September, 1924; June 19, 1933, to September 30, 1940.

Maximum discharge observed during period 1904-24, 1933-40; 2,750 second feet, estimated, June 16, 1918.

Maximum Discharge—Year 1939; 795 second feet, June 1, 1939. Gage height 3.24 feet.

Maximum Discharge—Year 1940; 1,230 second feet, June 22, 1938. Gage height 3.77 feet.

Accuracy—Records considered excellent except those for ice effect, November 7, 1938, to March 28, 1939, and November 11, 1939, to December 1, December 14 to March 24, 1940, computed on basis of 3 and 2 discharge measurements and records for station at Leal, and are good.

Diversions for irrigation above station.

BLUE RIVER AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at edge of Dillon, a short distance above the mouths of Snake River and Ten Mile Creek.

Drainage Area—129 square miles. Zero of gage is 8,821.42 feet above mean sea level.

Records Available—October 15, 1910, to September 30, 1940.

Maximum discharge observed during period 1910-40; 1,180 second feet, June 2, 14, 1914. Gage height 4.35 feet.

Maximum Discharge—Year 1939; 580 second feet, May 23, 1939. Gage height 3.10 feet.

Maximum Discharge—Year 1940; 392 second feet, June 2, 1940. Gage height 3.05 feet.

Accuracy—Records considered excellent except for periods of ice effect November 6, 1938, to April 8, 1939, and October 1-7, 21-24, November 10, 1939, to March 29, 1940, which were computed on basis of 4 and 3 discharge measurements and weather records, and are fair.

Diversions for irrigation above station, but practically all are returned to river above station.

BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location—Water stage recorder in NE¼ Sec. 33, T. 1 S., R. 80 W., at Frank Stafford ranch, just downstream from Spring Creek, about 4 miles below Green Mountain Dam, and 10 miles southeast of Kremmling.

Drainage Area—623 square miles.

Records Available—October, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 4,000 second feet, June 4, 1938. Gage height 5.93 feet.

Maximum Discharge—Year 1939; 3,190 second feet, May 23, 1939. Gage height 5.33 feet.

Maximum Discharge—Year 1940; 2,800 second feet, June 2, 1940. Gage height 4.98 feet.

Accuracy—Records considered good, except those during ice period, November 12, 1938, to April 2, 1939, and November 21 to March 24, 1940, computed on basis of 4 and 3 discharge measurements during periods, weather records, and are fair.

Diversions for irrigation above station.

SNAKE RIVER AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at private bridge 100 yards above mouth of river at Dillon.

Drainage Area—92 square miles. Zero of gage is 8,820.54 feet above mean sea level.

Records Available—October 15, 1910, to September 30, 1919; December, 1929, to September 30, 1940.

Maximum discharge observed during period 1910-19, 1929-40; 1,200 second feet, June 13, 1935. Gage height 4.25 feet.

Maximum Discharge—Year 1939; 580 second feet, May 22, 1939. Gage height 3.45 feet.

Maximum Discharge—Year 1940; 460 second feet, June 2, 1940. Gage height 3.27 feet.

Accuracy—Records considered excellent except those for period of ice effect, November 5-11, November 20-30, December 2, 3, December 13, 1938, to January 13, 1939, January 15, 23-28, February 1-18, 21-25, February 28 to March 12, 1939, and for period October 28 to November 1; November 9 to December 9; December 11-16, 18-30, 1939; January 7-28, 30-31, 1940; February

12-24, March 1, 13-15, 1940, computed on basis of 3 and 1 discharge measurements, gage heights and weather records, and are fair.

One diversion for power around station.

TEN MILE CREEK AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., 250 feet downstream from highway bridge and 200 yards above mouth at Dillon. Prior to August 5, 1939, water stage recorder at site 250 feet upstream, different datum.

Drainage Area—113 square miles. Zero of gage is 8817.97 feet above mean sea level.

Records Available—October 15, 1910, to September 30, 1919; April, 1930, to September 30, 1940.

Maximum discharge observed during period 1910-19, 1930-40; 2,010 second feet, June 1, 1933. Gage height 5.82 feet (former datum.)

Maximum Discharge—Year 1939; 1,030 second feet, May 22, 1939. Gage height 4.98 feet.

Maximum Discharge—Year 1940; 656 second feet, June 1, 1940. Gage height 3.86 feet.

Accuracy— Records considered good, except those for period of ice effect, or missing gage heights, November 6, 1938, to March 31, 1939, and July 29 to August 24, October 30, 31 and November 10, 1939, to March 19, 1940, computed on basis of 4 and 3 discharge measurements and weather records, and are fair.

Diversions for irrigation and mining above station. Robinson Reservoir (capacity 2,520 acre-feet) constructed above station November, 1936.

ROARING FORK RIVER AT ASPEN, COLORADO

Location—Water stage recorder in Sec. 7, T. 10 S., R. 84 W., at bridge near old power plant in Aspen, ¾ mile upstream from Hunter Creek. Prior to February 24, 1915, station located ½ mile upstream from present site; February 24, 1915, to October 5, 1935, station ¼ mile downstream from present site. Records comparable.

Drainage Area—109 square miles.

Records Available—January 1, 1911, to September 30, 1921; April 24, 1932, to September 30, 1940.

Maximum discharge observed during period 1911-21, 1932-40; 3,170 second feet, June 18, 1917. Gage height 7.2 feet, former site and datum.

Maximum Discharge—Year 1939; 567 second feet, May 20, 1939. Gage height 3.53 feet.

Maximum Discharge—Year 1940; 463 second feet, June 2, 1940. Gage height 3.27 feet.

Accuracy—Records considered good except for periods of ice effect, November 13, 1938, to January 18, 1939, January 24 to March 14, 1939, and November 18-22, December 13-16, December 19, 1939, to January 5, 1940, January 8, January 13 to February 5, February 7, 13-16, 18-19, March 13, 14, 1940, computed on basis of 2 and 1 discharge measurements, weather records, and records for Crystal River at Redstone, and are fair.

Twin Lakes Trans-Mountain Tunnel diverts water 15 miles above station to Lake Creek in the Arkansas River basin. The combination of this flow and Roaring Fork is comparable with records at this station prior to May 24, 1935. See Correction Table published with discharge data for this station.

ROARING FORK RIVER AT GLENWOOD SPRINGS, COLORADO

Location—Water stage recorder in Sec. 9, T. 6 S., R. 89 W., 1,500 feet above mouth of river at Glenwood Springs.

Drainage Area—1,460 square miles. Zero of gage is 5,720.73 feet above mean sea level.

Records Available—April, 1906, to September, 1909; September, 1910, to September 30, 1940.

Maximum discharge observed during period 1906-09, 1910-40; 17,600 second feet, June 14, 1918, and June 14, 1921.

Maximum Discharge—Year 1939; 5,820 second feet; June 1, 1939. Gage height 4.61 feet.

Maximum Discharge—Year 1940; 5,320 second feet, June 1, 1940. Gage height 4.38 feet.

Accuracy—Records considered excellent above 500 feet, good below. Those for ice period January 24 to 28, 1940, computed on basis of weather records, which are good.

Diversions for irrigation above station.

CRYSTAL RIVER NEAR REDSTONE, COLORADO

Location—Water stage recorder in NE¼ Sec. 9, T. 9 S., R. 88 W., 75 feet below mouth of Nettle Creek and 7 miles downstream from Redstone.

Drainage Area—197 square miles. Zero of gage is 6,485.07 feet above mean sea level.

Records Available—May 12, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 4,400 second feet, June 21, 1938. Gage height 5.96 feet.

Maximum Discharge—Year 1939; 1,960 second feet, June 5, 1939. Gage height 4.00 feet.

Maximum Discharge—Year 1940; 2,090 second feet, June 1, 1940. Gage height 4.14 feet.

Accuracy—Records considered good except those for November 5, 1938, December 15-17 and period ice effect, December 26 to December 31, 1938, and November 20, 21, 23-25, 28-30, 1939, January 15-18, 23-27, 1940, computed on basis of weather records and comparison of Roaring Fork at Glenwood Springs, all of which are fair.

Diversions for irrigation above station.

WEST DIVIDE CREEK BELOW WILLOW CREEK NEAR RAVEN, COLORADO

Location—Water stage recorder in NE¼ of Sec. 14, T. 9 S., R. 91 W., at Weatherly Ranch ¼ mile below mouth of Willow Creek and 15 miles south of Raven.

Drainage Area—32.7 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 271 second feet, May 9, 1940. Gage height 1.91 feet.

Maximum Discharge—Year 1939; 225 second feet, May 5, 1939. Gage height 1.80 feet.

Maximum Discharge—Year 1940; 271 second feet, May 9, 1940. Gage height 1.91 feet.

Accuracy—Records considered good except for periods of ice effect November 5-7, 13-17, November 21 to December 9, December 11, 1938, January 17 to March 15, 1939, March 20-29 and November 26-30, March 14-29, 1940, computed on basis of 1 discharge measurement and weather records, and are fair.

Trans-Mountain diversion above station from Buzzard Creek into West Divide Creek.

PLATEAU CREEK NEAR COLLBRAN, COLORADO

Location—Water stage recorder in NW¼ Sec. 24, T. 9 S., R. 94 W., 7 miles east of Collbran.

Drainage Area—88 square miles.

Records Available—August 20, 1921, to September 30, 1940.

Maximum discharge observed during period 1921-40; 2,800 second feet, May 28, 1922. Gage height 6.72 feet, former datum.

Maximum Discharge—Year 1939; 828 second feet, May 19, 1939. Gage height 4.24 feet.

Maximum Discharge—Year 1940; 1,310 second feet, May 9, 1940. Gage height 4.56 feet.

Accuracy—Records considered good except those for ice effect period, November 26, 1938, to March 20, 1939, and November 20, 21, December 13, 14, December 21, 1939, to March 16, 1940, computed on basis of 2 discharge measurements and weather records, and are fair.

Five small diversions for irrigation above station.

PLATEAU CREEK NEAR CAMEO, COLORADO

Location—Water stage recorder in SW¼ Sec. 18, T. 10 S., R. 97 W., 1.1 miles above mouth and 4 miles northeast of Cameo.

Drainage Area—604 square miles.

Records Available—April 26, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 2,550 second feet, May 29, 1938. Gage height 6.07 feet.

Maximum Discharge—Year 1939; 1,130 second feet, May 11, 1939. Gage height 4.07 feet.

Maximum Discharge—Year 1940; 1,800 second feet, May 13, 1940. Gage height 5.08 feet.

Accuracy—Records considered good except those for ice effect periods, November 25, 1938, December 15 to March 8, 1939, and December 20, 1939, to January 3, 1940, and January 14, to February 4, 1940, computed on basis of 2 and 1 discharge measurements and weather records and records for Gunnison at Grand Junction, and are fair.

Diversions for irrigation above station.

BUZZARD CREEK NEAR HEIBERGER, COLORADO

Location—Water stage recorder in NE¼ Sec. 13 (Revised), T. 9 S., R. 93 W., 1.1 miles downstream from Hightower ranger station and 3 miles east of Heiberger.

Drainage Area—76.5 square miles.

Records Available—April 29, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 720 second feet, April 30, 1938. Gage height 4.45 feet.

Maximum Discharge—Year 1939; 359 second feet, May 5, 1939. Gage height 3.44 feet.

Maximum Discharge—Year 1940; 320 second feet, May 4, 1940. Gage height 3.40 feet.

Accuracy—Records considered good except those for March 23-26, 1939, and May 13 to July 28, 1939, which are poor, and were computed on basis of 4 discharge measurements and records for station at Collbran. Those for period of ice effect December 13, 19, 20, 22, 31, 1939, were estimated.

One diversion for irrigation to West Divide Creek above station.

BUZZARD CREEK NEAR COLLBRAN, COLORADO

Location—Water stage recorder in Sec. 14, T. 9 S., R. 94 W., 7 miles east of Collbran and ½ mile above mouth of Brush Creek.

Drainage Area—139 square miles.

Records Available—August 18, 1921, to September 30, 1940.

Maximum discharge observed during period 1921-40; 1,270 second feet, May 8, 1922. Gage height 7.80 feet.

Maximum Discharge—Year 1939; 318 second feet, May 6, 1939. Gage height 3.88 feet.

Maximum Discharge—Year 1940; 345 second feet, May 7, 1940. Gage height 3.96 feet.

Accuracy—Records considered good. Those for period of ice effect December 13, 1938, to March 28, 1939, were computed on basis of 3 discharge measurements and weather records; those for October 1, 30-31, November 1, 2, 7-12, 1938, computed on basis of records for station near Heiberger. Those estimated for period of ice effect December 27-30, 1939, and from January 7 to February 24, 1940, were computed on basis of 1 discharge measurement and weather records, and are fair.

Diversions for irrigation above station.

TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 24, T. 14 S., R. 83 W., just below highway bridge and 1,000 feet below Taylor Park Dam.

Drainage Area—155 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 792 second feet, June 1, 1939. Gage height 3.44 feet.

Maximum Discharge—Year 1939; 814 second feet, July 22, 1939. Gage height 3.48 feet. Discharge of natural flow over spillway.

Maximum Discharge—Year 1940; 682 second feet, July 22, 1940. Gage height 3.31 feet.

Accuracy—Records considered good. Flow controlled by needle valve.

TAYLOR RIVER AT ALMONT, COLORADO

Location—Water stage recorder in Sec. 22, T. 51 N., R. 1 E., at highway bridge at Almont, 800 feet above junction with East River.

Drainage Area—440 square miles. Zero of gage is 8,011.98 feet above mean sea level.

Records Available—July 27, 1910, to September 30, 1940.

Maximum discharge observed during period 1910-40; 3,760 second feet, June 9, 1920. Gage height 5.00 feet.

Maximum Discharge—Year 1939; 1,180 second feet, June 1, 1939. Gage height 3.35 feet.

Maximum Discharge—Year 1940; 856 second feet, October 3, 1940. Gage height 2.97 feet.

Accuracy—Records considered good except those for period of ice effect, November 25 to December 3, December 13, 1938, to March 8,1939, March 12, 18, and December 13-18, 1939, December 21, 1939, to March 9, 1940, March 14-16, 1940, which were computed on basis of 2 discharge measurements and weather records. Taylor Park Reservoir 24 miles above station (capacity 106,000 acre-feet), controls flow.

Diversions for irrigation above station.

EAST RIVER AT ALMONT, COLORADO

Location—Water stage recorder in Sec. 22, T. 51 N., R. 1 E., 400 feet above mouth at Almont.

Drainage Area—295 square miles. Zero of gage is 8,009.51 feet above mean sea level.

Records Available—April to October, 1905; July, 1910, to April, 1922; October 1934 to September 30, 1940.

Maximum discharge observed during period 1905, 1910-22, 1934-40, about 6,500 second feet, June 15, 1921. Gage height 6.6 feet, former site and datum.

Maximum Discharge—Year 1939; 1,590 second feet, May 23, 1939. Gage height 3.92 feet.

Maximum Discharge—Year 1940; 1,220 second feet, May 11, 1940. Gage height 3.56 feet.

Accuracy—Records considered excellent except those for ice periods, November 23 to December 3, 1938, December 14 to March 12, 1939, and for November 17-24, December 12 to February 29, 1940, which were computed on basis of 2 discharge measurements, gage heights and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK AT SARGENTS, COLORADO

Location—Water stage recorder in SW¼ Sec. 21, T. 48 N., R. 5 E., ¾ mile south of Sargents. Marshall Creek enters ½ mile upstream. Station maintained from 1917-22 at site 1,000 feet upstream at different datum.

Drainage Area—155 square miles.

Records Available—May, 1917, to September, 1922; April, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 291 second feet, May 10, 1939. Gage height 1.89 feet.

Maximum Discharge—Year 1939; 291 second feet, May 10, 1939. Gage height 1.89 feet.

Maximum Discharge—Year 1940; 167 second feet, May 21, 1940. Gage height 1.42 feet.

Accuracy—Records considered good, except those for periods of ice effect, November 7, 1938, to April 21, 1939, and from

November 16, 1939, to April 3, 1940, which were computed on basis of 5 and 4 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK AT GUNNISON, COLORADO

Location—Water stage recorder in SW¼ Sec. 11, T. 49 N., R. 1 W., ½ mile above mouth and 1 mile south of Gunnison, on road to airport.

Drainage Area—1,020 square miles.

Records Available—April 20, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,420 second feet, March 24, 1939. Gage height 2.93 feet.

Maximum Discharge—Year 1939; 1,530 second feet, March 24, 1939. Gage height 2.93 feet.

Maximum Discharge—Year 1940; 326 second feet, March 27, 1940. Gage height 1.02 feet.

Accuracy—Records considered fair except for ice effect periods, November 21, 1938, to March 15, 1939, and December 27-30, 1939, January 13 to February 2, 1940, computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

QUARTZ CREEK NEAR OHIO, COLORADO

Location—Water stage recorder in SW¼ Sec. 27, T. 50 N., R. 3 E., 75 feet above highway bridge and 1 mile south of Ohio. Willow Creek enters ½ mile upstream.

Drainage Area—101 square miles.

Records Available—April 29, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-1940; 572 second feet, May 30, 1938. Gage height 2.71 feet.

Maximum Discharge—Year 1939; 291 second feet, May 22, 1939. Gage height 1.99 feet.

Maximum Discharge—Year 1940; 149 second feet, May 16, 1940. Gage height 1.54 feet.

Accuracy—Records considered good except for periods of ice effect from November 5-11, 1938, and from November 15, 1939, to February 29, 1940, March 13-24, computed on basis of 3 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CEBOLLA CREEK AT POWDERHORN, COLORADO

Location—Water stage recorder in SE¼ Sec. 29, T. 47 N., R. 2 W., 250 feet below mouth of Powerhorn Creek, ½ mile north of Powderhorn.

Drainage Area—334 square miles.

Records Available—April 21, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,060 second feet, May 29, 1938. Gage height 2.40 feet.

Maximum Discharge—Year 1939; 481 second feet, April 23, 1939. Gage height 1.68 feet.

Maximum Discharge—Year 1940; 229 second feet, May 12, 1940. Gage height 1.22 feet.

Accuracy—Records considered good except for periods of ice effect from November 15, 16, 1938, March 16 to April 19, 1939, and from November 14 to April 2, 1940, computed on basis of 1 and 4 discharge measurements and weather records, and are fair. Period September 18-20, 1940, computed on basis of records of Tomichi Creek at Sargents.

Diversions for irrigation above station.

LAKE FORK RIVER AT GATEVIEW, COLORADO

Location—Water stage recorder in Sec. 29, T. 47 N., R. 3 W., at Carr ranch (old Gateview Post Office), ¼ mile above Indian Creek and approximately 15 miles upstream from mouth.

Drainage Area—324 square miles. Zero of gage is 7,833.02 feet above mean sea level.

Records Available—April 24, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 2,620 second feet, June 21, 1938. Gage height 4.00 feet (5.00 feet present datum).

Maximum Discharge—Year 1939; 1,110 second feet, June 5, 1939. Gage height 2.72 feet.

Maximum Discharge—Year 1940; 1,330 second feet, June 2, 1940. Gage height 2.91 feet.

Accuracy—Records considered excellent. Records for period missing gage heights October 9-14, 1938, computed on basis of records for Tomichi Creek at Gunnison, and during ice effect periods November 14-30, and March 16-31, 1939, on basis of 1 discharge measurement, and November 17 to March 29, 1940, on basis of 4 discharge measurements and weather records.

Diversions for irrigation above station.

GUNNISON RIVER AT IOLA, COLORADO

Location—Water stage recorder in NW¼ Sec. 28, T. 49 N., R. 2 W., 1,000 feet upstream from highway bridge, 300 feet northeast of Iola. Station maintained 1900 to 1903, 1,000 feet downstream at different datum. Records comparable.

Drainage Area—2,490 square miles.

Records Available—1900-03; April 20, 1938, to September 30, 1940.

Maximum Discharge observed during period 1938-40; 5,750 second feet, June 5, 1938. Gage height 4.37 feet.

Maximum Discharge—Year 1939; 1,110 second feet, June 5, 1939. Gage height 2.72 feet.

Maximum Discharge—Year 1940; 1,650 second feet, May 17, 1940. Gage height 2.15 feet.

Accuracy—Records considered good, except for period ice effect from December 19, 1938, to March 26, 1939, and December 15 to March 24, 1940, computed on basis of 3 discharge measurements, weather records and record for East and Taylor Rivers at Almont, and are fair.

Diversions for storage and irrigation above station.

NORTH FORK OF GUNNISON RIVER NEAR SOMERSET, COLORADO

Location—Water stage recorder in Sec. 10, T. 13 S., R. 90 W., 2 miles east of Somerset.

Drainage Area—521 square miles.

Records Available—March 30, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 5,360 second feet, April 16, 1938. Gage height 5.62 feet.

Maximum Discharge—Year 1939; 2,690 second feet, May 5, 1939. Gage height 4.17 feet.

Maximum Discharge—Year 1940; 2,790 second feet, May 12, 1940. Gage height 4.24 feet.

Accuracy—Records considered excellent, except for periods of ice effect, November 8-11, 14-16, November 24, 1938, to March 7, 1939, and December 27-30, and January 8-26, 1940, which were computed on basis of 1 discharge measurement, gage heights, weather records, and comparison with Uncompahgre River at Delta, and are fair.

Diversions for irrigation above station.

EAST MUDDY CREEK NEAR BARDINE, COLORADO

Location—Water stage recorder in Sec. 17, T. 12 S., R. 89 W., 1/4 mile below Spring Creek and 6½ miles above Bardine.

Drainage Area—136 square miles.

Records Available—May 18, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 1,330 second feet, April 30, 1938. Gage height 2.88 feet.

Maximum Discharge—Year 1939; 624 second feet, May 5, 1939. Gage height 2.13 feet.

Maximum Discharge—Year 1940; 720 second feet, May 9, 1940. Gage height 2.25 feet.

Accuracy—Records considered good above 10 second feet. Discharge for October 16-18, 21-23, 25, 31, November 4-9, 1938, and March 13 to April 20, 1939, computed, as were those for December 8-31, 1939, and May 1-25, 1940, on basis of 2 and 1 discharge measurement, weather records, and records for North Fork Gunnison near Somerset, and are fair.

Diversion for irrigation above station.

GUNNISON RIVER NEAR GRAND JUNCTION, COLORADO

Location—Water stage recorder in NW¼ Sec. 35, T. 1 S., R. 1 W., Ute Meridian, ½ mile downstream from Redlands Power Diversion Dam, and 2 miles above mouth.

Drainage Area—8,020 square miles.

Records Available—May, 1897, to September, 1899 (at site near mouth); April, 1917, to September, 1930; January, 1934, to September 30, 1940.

Maximum discharge observed during period 1917-30, 1933-40; 35,700 second feet, May 23, 1920. Gage height 14.95 feet.

Maximum Discharge—Year 1939; 8,260 second feet, May 6, 1939. (Combined flow river and canal.)

Maximum Discharge—Year 1940; 8,390 second feet, May 13, 1940. (Combined flow river and canal.)

Accuracy—Records considered excellent above 1,000 second feet; those for March 1 to March 9, 1939, and December 27-29, January 18-31, 1940, computed on basis of gage heights, 1 discharge measurement, weather records, and comparison Colorado River at Cameo, and are fair.

Diversions for irrigation above station. Flows recorded are combination of river discharge and power canal diversions.

LEROUX CREEK NEAR CEDAREDGE, COLORADO

Location—Water stage recorder in Sec. 16, T. 13 S., R. 93 W., 200 feet upstream from headgate of Overland Ditch and 7.2 miles northeast of Cedaredge.

Drainage Area—43.0 square miles.

Records Available—October, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 1,120 second feet, May 28, 1938. Gage height 5.01 feet.

Maximum Discharge—Year 1939; 599 second feet, May 10, 1939. Gage height 4.00 feet.

Maximum Discharge—Year 1940; 825 second feet, May 9, 1940. Gage height 4.48 feet.

Accuracy—Records considered good, except for periods of ice effect, November 7-9, 13-16, 18, and November 24-26, 1938, which were computed on basis weather records, and records for North Fork Gunnison, and are fair. Estimated periods November 26-30, 1939, March 1-25, 1940, are fair.

One small diversion and several small reservoirs above station.

SURFACE CREEK ABOVE CEDAREDGE, COLORADO

Location—Water stage recorder in NW¼ Sec. 12, T. 12 S., R. 94 W., ½ mile east of road at Buzzard Ranch, 1 mile below mouth of Caesar Creek, and 8½ miles northeast of Cedaredge.

Drainage Area—28.5 square miles.

Records Available—June 20, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 293 second feet, May 6, 1940. Gage height 2.66 feet.

Maximum Discharge—Period 1939; 73 second feet, July 1, 1939. Gage height 1.78 feet.

Maximum Discharge—Year 1940; 293 second feet, May 6, 1940. Gage height 2.66 feet.

Accuracy—Records considered excellent, except for periods of missing gage heights October 16-31, 1939, and April 1-11, 1940, which were computed on basis of weather records and records for station at Cedaredge.

Diversions for storage above station.

SURFACE CREEK AT CEDAREDGE, COLORADO

Location—Water stage recorder in Sec. 20, T. 13 S., R. 94 W., at Cedaredge on 32-ft. weir.

Drainage Area—43 square miles.

Records Available—May 16, 1917, to September 30, 1940.

Maximum discharge observed during period 1917-40; 715 second feet, May 24, 1920. Gage height 1.95 feet.

Maximum Discharge—Year 1939; 120 second feet, April 30, 1939. Gage height 1.04 feet.

Maximum Discharge—Year 1940; 224 second feet, April 26, 1940. Gage height 1.34 feet.

Accuracy—Records considered good except those for periods of missing gage heights and of ice effect October 23-28, November 7-30, 1938, April 1-4, 1939, and from December 19, 1939, to March 4, 1940, which are estimated on basis of 3 and 2 discharge measurements and weather records, and are fair.

Diversions for storage and irrigation above station. Flow regulated by numerous reservoirs. Water brought into this drainage basin from adjacent streams.

UNCOMPAHGRE RIVER AT COLONA, COLORADO

Location—Water stage recorder in NW¼ Sec. 17, T. 47 N., R. 8 W., ¼ mile east of Colona at county bridge.

Drainage Area—437 square miles.

Records Available—April, 1917, to September 30, 1940, April, 1917, to November, 1934, at site 3 miles upstream. Records practically equivalent.

Maximum discharge observed during period 1917-40; 4,080 second feet, June 13-14, 1921.

Maximum Discharge—Year 1939; 1,060 second feet, June 5, 1939. Gage height 3.65 feet.

Maximum Discharge—Year 1940; 1,850 second feet, June 1, 1940. Gage height 3.08 feet.

Accuracy—Records considered good except those for periods of ice effect, December 15-20, December 25, 1938, to January 20, January 26-30, February 3-24, 1939, and December 20-27, 30, 31, January 17-31, 1940, February 13-15, 18-22, computed on basis of 7 and 2 discharge measurements, weather records, and by comparison with records for the station on Uncompahgre River at Delta, and are fair.

Diversions for irrigation above station.

UNCOMPAHGRE RIVER AT DELTA, COLORADO

Location—Water stage recorder in SW¼ Sec. 13, T. 15 S., R. 96 W., near bridge on highway 50 on west edge of Delta, and 1¼ miles above mouth.

Drainage Area—11,000 square miles.

Records Available—September 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,980 second feet, September 30, 1940. Gage height 4.25 feet.

Maximum Discharge—Year 1939; 1,080 second feet, October 8, 1939. Gage height 3.24 feet.

Maximum Discharge—Year 1940; 1,980 second feet, September 30, 1940. Gage height 4.25 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

KANNAH CREEK NEAR WHITEWATER, COLORADO

Location—Water stage recorder in Sec. 34, T. 12 S., R. 97 W., 17 miles east of Whitewater and ¼ mile downstream from Grand Junction Water Works intake, concrete control. Prior to October 14, 1935, station located 300 feet upstream.

Drainage Area—55 square miles.

Records Available—October 15, 1917, to September 30, 1921; August 17, 1922, to September 30, 1938. Flow diverted by intake not included in record since 1930. Maximum discharges only are for combined flow of stream and diversion.

Maximum discharge observed during period 1917-21, 1922-40; 1,630 second feet, June 6, 1921.

Maximum Discharge—Year 1939; 440 second feet, May 10, 1939. Gage height 1.75 feet.

Maximum Discharge—Year 1940; 691 second feet, May 13, 1940. Gage height 2.32 feet.

Accuracy—Records considered good. Periods of ice effect November 7-9, November 13, 1938, to March 18, 1939, computed on basis of 3 discharge measurements, weather records, and those for period of ice effect November 16-25, December 2-6, 13-17, December 28, 1939, to January 10, 1940, January 12-28, February 6, 8, 9, 13, 17, 18, and March 7, 14, 15, computed on basis of observer's notes, weather records and comparison North Fork Gunnison River near Somerset, and are fair.

Diversions for storage and domestic use above station.

ROUBIDEAU CREEK NEAR DELTA, COLORADO

Location—Water stage recorder in Sec. 7, T. 51 N., R. 11 W., 600 feet above mouth of Buttermilk Creek, and 5½ miles west of Delta.

Drainage Area—165 square miles.

Records Available—March 28, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 640 second feet, May 11, 1940. Gage height 3.24 feet.

Maximum Discharge—Year 1939; 563 second feet, May 1, 1939. Gage height 3.02 feet.

Maximum Discharge—Year 1940; 640 second feet, May 11, 1940. Gage height 3.24 feet.

Accuracy—Records considered good except for period of ice effect, January 11, 1940, to February 5, computed on basis of 3 discharge measurements and weather records, and are fair.

ROUBIDEAU CREEK AT MOUTH NEAR DELTA, COLORADO

Location—Water stage recorder in Sec. 19, T. 15 S., R. 96 W., ½ mile above mouth and 5 miles west of Delta. Buttermilk Creek enters two miles upstream.

Drainage Area—245 square miles.

Records Available—March 23, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 923 second feet, May 17, 1940. Gage height 4.18 feet.

Maximum Discharge—Year 1939; 802 second feet, May 1, 1939. Gage height 3.84 feet.

Maximum Discharge—Year 1940; 923 second feet, May 17, 1940. Gage height 4.18 feet.

Accuracy—Records considered good except for ice effect period, January 11-23, 1940, computed on basis of 1 discharge measurement, weather records, and record for Uncompahgre River at Delta.

DOLORES RIVER AT DOLORES, COLORADO

Location—Water stage recorder in Sec. 9, T. 37 N., R. 15 W., in Dolores, 200 feet upstream from highway bridge and ¼ mile upstream from Lost Canon Creek.

Drainage Area—508 square miles. Altitude, 6,954 feet above mean sea level.

Records Available—June, 1895, to October, 1903; November, 1910, to November, 1912; April, 1922, to September 30, 1940. Prior to December 6, 1912, station maintained just below mouth of Lost Canon Creek.

Maximum discharge observed during period 1895-1903, 1910-1912, 1922-1940; 10,000 second feet, October 5, 1911. Gage height 10.20 feet, former site and datum.

Maximum Discharge—Year 1939; 1,810 second feet, May 6, 1939. Gage height 4.95 feet.

Maximum Discharge—Year 1940; 2,130 second feet, May 14, 1940. Gage height 5.27 feet.

Accuracy—Records considered good, except those for periods of ice effect, November 24, 1938, to March 22, 1939, computed on basis of 4 discharge measurements and records for Animas at Durango, and those for ice effect period December 14, 1939, to March 3, 1940, computed on basis of 4 discharge measurements, weather records and reports of storage by Commissioner.

Diversions for irrigation above station.

DOLORES RIVER NEAR McPHEE, COLORADO

Location—Water stage recorder in NE¼ Sec. 12, T. 38 N., R. 16 W., 0.8 mile below the mouth of Beaver Creek, and 4½ miles northwest of McPhee.

Drainage Area—803 square miles. Zero of gage is 6,666.45 feet above mean sea level.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,900 second feet, March 25, 1939. Gage height 3.82 feet.

Maximum Discharge—Year 1939; 1,510 second feet, May 6, 1939. Gage height 3.43 feet.

Maximum Discharge—Year 1940; 1,880 second feet, May 14, 1940. Gage height 3.85 feet.

Accuracy—Records considered good except for period of missing gage heights October 1-6, computed on basis of 1 discharge measurement and daily observations, and periods of ice effect December 5, 6, December 26, 1938, to March 19, 1939, and from December 13 to February 4, 1940, computed on basis of 3 and 4 discharge measurements, weather records and records for Dolores River at Dolores, and are fair.

Diversions for irrigation above station, and three small diversions below station.

Montezuma Irrigation District diverts water from basin for irrigation and storage just below station at Dolores.

DOLORES RIVER AT GATEWAY, COLORADO

Location—Water stage recorder in SW¼ Sec. 15, T. 51 N., R. 19 W., 0.3 miles southwest of Gateway, 0.3 mile downstream from mouth of West Creek, and 8 miles upstream from Colorado-Utah State Line.

Drainage Area—4,350 square miles. Zero of gage is 4,547.44 feet above mean sea level.

Records Available—March, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 13,000 second feet, April 25, 1938. Gage height 11.65 feet.

Maximum Discharge—Year 1939; 4,000 second feet, April 5, 1939. Gage height 6.46 feet.

Maximum Discharge—Year 1940; 4,590 second feet, April 22, 1940. Gage height 6.75 second feet.

Accuracy—Records considered fair except for period January 9-11, 15-17, March 5-10, 1939, January 7-12, 1940, February 2, 3, 5-9, 11, 12, computed on basis of weather records and record for White at Watson and Uncompahgre River at Delta.

Diversions for irrigation above and below station.

Discharge of Colorado River Near Grand Lake, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	31	27	21	17	18	18	35	287	510	71	9.4	24
2....	30	28	20	17	18	18	41	326	401	66	7.6	23
3....	31	27	20	17	18	18	51	343	364	61	5.4	20
4....	29	26	20	18	17	18	53	287	401	59	6.2	18
5....	31	27	20	17	17	18	62	297	453	55	5.0	16
6....	34	26	20	17	17	17	56	340	453	51	5.6	20
7....	34	27	19	17	17	17	50	275	398	45	24	20
8....	35	28	19	17	17	17	54	238	313	44	37	24
9....	38	28	18	18	17	17	61	253	275	41	30	23
10....	38	28	18	18	17	17	58	306	256	38	23	20
11....	36	29	18	17	17	18	50	306	256	34	20	21
12....	33	27	18	17	17	18	55	287	238	33	22	22
13....	31	24	18	17	16	18	60	263	247	30	22	22
14....	32	22	17	17	16	18	68	275	253	27	22	22
15....	33	21	17	17	16	18	68	316	269	22	20	21
16....	33	21	17	17	16	18	66	367	253	24	21	22
17....	37	22	17	17	16	19	61	330	236	23	19	23
18....	40	23	17	18	16	19	56	340	211	20	20	22
19....	34	23	18	18	16	19	62	394	177	20	20	22
20....	30	22	18	18	16	20	68	425	156	18	20	22
21....	31	21	18	18	16	21	82	418	154	16	18	21
22....	31	22	18	18	16	23	104	432	136	14	23	21
23....	30	22	18	19	17	24	134	439	114	11	25	22
24....	29	22	18	18	17	26	116	408	107	7.6	18	36
25....	28	23	18	18	17	27	100	381	107	7.6	21	36
26....	27	21	17	18	17	27	114	326	97	6.2	20	32
27....	27	21	18	18	17	27	152	278	88	5.2	22	32
28....	27	20	18	18	17	28	227	294	84	5.4	25	31
29....	27	20	18	18	....	30	294	326	77	4.8	27	34
30....	26	21	18	18	....	32	287	388	74	5.4	24	31
31....	26	....	17	18	....	32	....	435	....	6.0	23	....
Total	979	719	566	545	469	657	2745	10380	7158	871.2	605.2	723
Mean.	31.6	24.0	18.3	17.6	16.8	21.2	91.5	335	239	28.1	19.5	24.1
Max..	40	29	21	19	18	32	294	439	510	71	37	36
Min...	26	20	17	17	16	17	35	238	74	4.8	5.0	16
Acre-ft.	1940	1430	1120	1080	930	1300	5440	20590	14200	1730	1200	1430

Total run-off for water year 1938-39=52,390 acre-feet.

Discharge of Colorado River Near Grand Lake, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	28	28	15	10	12	13	25	47	331	78	16	39
2....	28	26	16	11	12	14	24	58	361	103	14	38
3....	27	24	16	11	12	14	29	85	364	82	13	35
4....	31	22	14	11	12	14	28	121	328	70	12	40
5....	30	22	13	11	12	13	29	152	325	61	12	35
6....	29	24	13	12	12	13	25	158	325	67	12	31
7....	28	23	14	11	12	13	23	172	256	54	12	31
8....	29	21	14	11	12	14	26	181	229	49	12	30
9....	36	21	14	12	12	14	18	181	192	44	12	37
10....	38	19	13	12	12	14	20	210	170	43	16	46
11....	40	19	12	11	12	14	19	265	170	37	21	40
12....	31	18	12	12	12	13	26	298	185	32	20	36
13....	30	18	12	12	12	13	22	316	192	25	20	37
14....	29	17	12	12	11	13	31	232	220	23	20	40
15....	29	17	12	12	13	13	46	204	241	21	19	39
16....	31	17	12	12	12	14	49	259	220	20	19	34
17....	32	17	11	11	11	16	50	250	217	21	20	32
18....	29	16	11	12	11	16	58	204	197	36	18	32
19....	25	16	10	12	12	22	78	190	181	44	14	33
20....	24	16	10	12	12	15	94	207	181	31	16	32
21....	23	16	10	12	12	14	105	210	166	29	19	32
22....	22	16	10	12	12	18	107	176	160	28	19	34
23....	22	16	11	13	12	19	94	162	142	22	18	33
24....	22	15	10	13	12	20	103	160	123	19	26	31
25....	23	15	11	13	12	21	119	181	107	19	43	32
26....	23	15	10	12	13	19	121	202	101	17	58	35
27....	24	16	10	11	13	19	119	256	93	16	88	45
28....	24	16	10	12	13	19	96	238	83	16	80	42
29....	22	16	12	12	12	19	77	226	77	16	61	42
30....	22	15	10	12	....	20	53	238	75	16	49	60
31....	24	....	10	12	....	21	....	283	....	18	44	....
Total	855	557	370	364	349	494	1714	6122	6012	1157	823	1103
Mean.	27.6	18.6	11.9	11.7	12.0	15.9	57.1	197	200	37.3	26.5	36.8
Max..	40	28	16	13	13	22	121	316	364	103	88	60
Min...	22	15	10	10	11	13	19	47	75	16	12	30
Acre-ft.	1700	1100	734	722	692	980	3400	12140	11920	2290	1630	2190

Total run-off for water year 1939-40=39,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Granby, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	96	75	52	49	51	42	95	833	1980	548	190	75
2....	93	77	51	50	50	42	96	992	1680	512	190	71
3....	93	77	51	50	50	43	96	1120	1450	488	168	65
4....	93	77	52	51	49	43	115	1040	1560	476	157	61
5....	93	69	54	49	49	43	133	1030	1800	452	140	57
6....	96	52	54	50	49	43	115	1110	1850	423	140	63
7....	98	61	53	51	48	44	101	965	1640	390	223	69
8....	104	61	52	51	47	44	115	798	1390	374	232	71
9....	104	77	52	51	47	44	133	763	1240	363	202	71
10....	104	77	55	50	46	45	115	938	1080	353	168	67
11....	106	75	53	49	45	46	101	974	1070	337	143	69
12....	104	65	50	48	47	46	115	947	1080	318	133	73
13....	104	55	49	49	46	47	140	848	1170	294	126	75
14....	104	52	48	49	44	48	168	848	1260	280	123	75
15....	104	55	49	49	44	49	164	1070	1360	258	118	75
16....	101	58	50	49	44	51	146	1300	1390	249	115	73
17....	106	59	49	50	43	53	126	1220	1270	240	106	71
18....	109	60	49	51	43	56	118	1170	1130	211	96	69
19....	104	59	50	51	43	53	129	1350	904	190	91	65
20....	98	58	51	52	44	52	129	1560	756	179	86	61
21....	93	56	52	51	43	55	160	1550	686	160	80	59
22....	91	55	50	50	42	58	227	1560	644	153	80	59
23....	91	55	49	50	43	62	294	1620	574	140	80	63
24....	84	57	49	49	43	68	284	1580	595	129	80	75
25....	82	59	48	50	43	72	266	1450	630	120	80	82
26....	82	56	49	50	44	72	275	1240	651	123	80	75
27....	80	52	50	51	44	74	308	1050	616	133	82	73
28....	80	51	51	52	43	78	434	1000	602	136	82	75
29....	77	51	50	52	....	82	637	1200	581	126	86	89
30....	75	52	50	53	....	86	749	1620	567	146	89	96
31....	75	....	49	52	....	92	....	1860	....	183	73	....
Total	2924	1843	1571	1559	1274	1733	6084	36606	33206	8484	3839	2122
Mean.	94.3	61.4	50.7	50.3	45.5	55.9	203	1180	1107	274	124	70.7
Max..	109	77	54	53	51	92	749	1860	1980	548	232	96
Min...	75	51	48	48	42	42	95	763	567	120	73	57
Acre-ft.	5800	3660	3120	3090	2530	3440	12070	72610	65860	16830	7610	4210

Total run-off for water year 1938-39=200,800 acre-feet.

Discharge of Colorado River Near Granby, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	89	74	60	42	38	43	110	195	1670	524	160	210
2....	89	74	62	40	36	42	110	191	1800	623	140	184
3....	84	74	57	42	37	40	94	226	1780	616	128	166
4....	87	70	58	43	37	39	86	304	1560	554	123	163
5....	92	70	54	41	35	41	90	458	1560	482	120	153
6....	92	76	51	38	35	43	94	554	1570	482	114	137
7....	89	74	53	36	36	42	82	651	1260	464	114	128
8....	96	72	54	38	36	41	78	679	1080	418	112	126
9....	120	72	54	35	36	42	74	707	912	368	109	144
10....	123	64	53	37	36	44	72	856	784	337	104	163
11....	120	57	50	35	35	44	70	1030	777	318	104	160
12....	114	55	47	33	34	40	70	1140	920	314	101	147
13....	109	55	46	33	32	37	80	1210	1000	300	96	137
14....	101	54	47	33	30	38	106	1000	1240	277	96	147
15....	99	56	49	31	30	37	134	880	1400	260	92	140
16....	96	56	50	32	31	39	137	1000	1320	251	89	126
17....	94	56	48	33	29	42	120	1100	1230	264	87	120
18....	89	54	46	30	30	44	134	1010	1120	384	87	117
19....	87	52	43	29	32	44	170	888	1040	482	80	123
20....	82	55	44	32	32	48	198	904	1060	406	87	126
21....	80	55	43	32	32	50	198	947	1010	358	99	131
22....	78	55	41	29	32	46	222	770	938	337	99	137
23....	74	55	41	30	35	47	210	686	864	300	92	137
24....	72	54	38	32	36	45	238	686	798	273	104	131
25....	72	53	39	30	37	58	260	777	721	242	153	128
26....	72	56	39	34	39	78	277	896	679	218	222	131
27....	74	56	38	34	40	70	291	1110	616	198	337	150
28....	74	55	35	35	40	65	282	1150	588	195	390	160
29....	74	54	37	37	42	62	273	1180	574	180	342	166
30....	72	53	40	35	....	66	230	1260	536	177	286	195
31....	74	....	44	36	....	90	....	1420	....	170	242	....
Total	2768	1816	1461	1081	1010	1507	4590	25865	32407	10772	4509	4383
Mean.	89.3	60.5	47.1	34.9	34.8	48.6	153	834	1080	347	145	146
Max..	123	76	62	43	42	90	291	1420	1800	623	390	210
Min...	72	52	35	29	29	37	70	191	536	170	180	117
Acre-ft.	5490	3600	2900	2140	2000	2990	9100	51300	64280	21370	8940	8690

Total run-off for water year 1939-40=182,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Hot Sulphur Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	208	184	112	112	114	110	246	1630	3470	747	286	136
2....	208	184	108	114	110	110	277	1890	2880	664	286	130
3....	204	176	108	116	106	110	375	2110	2360	619	246	115
4....	196	188	110	116	108	110	430	1980	2480	598	237	109
5....	188	200	115	110	110	115	480	1970	2880	584	220	109
6....	196	176	110	112	112	115	415	2150	3070	552	204	112
7....	208	165	108	115	114	120	320	1860	2720	492	330	130
8....	208	204	106	120	108	122	305	1580	2290	462	345	136
9....	204	184	112	118	110	125	390	1550	2000	440	291	133
10....	204	216	115	114	108	125	365	1840	1800	430	254	124
11....	200	184	105	112	106	135	291	1910	1680	410	216	124
12....	196	180	102	110	115	135	310	1900	1660	390	200	130
13....	188	140	100	108	110	130	390	1770	1740	365	188	130
14....	184	115	98	108	110	130	435	1720	1850	350	184	130
15....	188	120	102	108	110	140	420	1970	1950	325	180	127
16....	184	125	108	110	112	150	375	2260	1970	315	172	124
17....	184	125	115	110	108	165	310	2190	1800	305	165	124
18....	188	130	108	112	104	155	277	2120	1580	282	154	118
19....	184	125	110	114	106	155	340	2350	1310	259	143	112
20....	172	119	112	116	108	160	325	2690	1100	246	130	106
21....	180	112	115	118	110	165	365	2670	1000	220	127	106
22....	200	108	115	114	112	175	516	2690	970	200	130	100
23....	184	104	112	110	114	190	712	2810	846	188	124	106
24....	180	100	112	108	116	205	656	2760	828	176	121	118
25....	176	105	110	106	112	215	598	2560	864	161	124	136
26....	184	102	106	105	112	210	598	2250	873	165	121	130
27....	180	104	108	110	112	215	688	1880	810	176	127	130
28....	184	108	108	110	112	230	960	1730	765	208	133	133
29....	180	110	110	112	....	245	1340	1910	747	192	150	147
30....	180	115	115	115	....	265	1540	2450	712	204	150	158
31....	180	....	108	115	....	255	....	3000	....	291	143	....
Total	5900	4308	3383	3478	3089	4987	15049	66150	51005	11016	5881	3723
Mean.	190	144	109	112	110	161	502	2134	1700	355	190	124
Max...	208	216	115	120	116	265	1540	3000	3470	747	345	158
Min...	172	100	98	105	104	110	246	1550	712	161	121	100
Acre-ft.	11700	8540	6710	6900	6130	9890	29850	131200	101200	21850	11660	7380

Total run-off for water year 1938-39=353,000 acre-feet.

Discharge of Colorado River Near Hot Sulphur Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	143	136	103	94	89	120	300	456	2440	680	233	268
2....	140	143	106	91	87	118	291	450	2640	846	208	241
3....	136	136	103	94	90	116	200	528	2620	855	200	220
4....	143	124	99	96	93	118	204	688	2220	810	188	229
5....	158	130	96	96	90	122	225	930	2250	696	184	216
6....	154	143	92	88	90	126	241	1070	2300	712	172	192
7....	150	140	95	82	92	124	192	1180	1930	648	176	180
8....	150	127	96	85	94	122	168	1210	1610	605	176	176
9....	188	127	100	80	96	125	200	1210	1340	522	172	186
10....	196	112	100	81	96	130	184	1420	1140	468	161	229
11....	188	103	98	78	97	135	168	1660	1090	456	172	229
12....	180	109	94	75	97	130	150	1820	1210	456	158	204
13....	168	109	91	72	95	124	188	1950	1300	420	140	196
14....	165	109	92	75	93	124	268	1690	1600	400	133	204
15....	158	109	94	73	90	128	370	1500	1820	360	133	200
16....	154	103	95	72	90	132	370	1610	1770	360	124	192
17....	150	98	94	75	92	140	286	1770	1630	395	124	184
18....	147	96	92	73	90	148	315	1720	1500	612	118	180
19....	143	95	88	69	90	152	410	1490	1380	672	115	192
20....	133	100	86	72	94	160	498	1480	1370	540	130	220
21....	133	102	87	75	94	165	522	1680	1420	468	150	208
22....	130	100	84	73	94	160	522	1430	1400	435	172	216
23....	127	98	83	71	94	160	504	1220	1200	385	158	212
24....	124	96	85	78	100	200	492	1190	1070	340	165	208
25....	121	95	82	83	105	257	510	1250	950	310	241	204
26....	121	97	83	84	109	300	558	1430	891	277	305	220
27....	130	99	83	83	112	254	598	1740	819	259	405	268
28....	115	97	77	84	114	208	612	1820	747	259	468	272
29....	127	96	81	86	120	184	570	1810	712	250	420	272
30....	109	95	88	83	....	172	504	1900	672	250	355	305
31....	118	....	94	86	....	220	....	2090	....	246	305	....
Total	4499	3324	2841	2507	2787	4874	10620	43392	45041	14992	6361	6523
Mean.	145	111	91.6	80.9	96.1	157	354	1400	1501	484	205	217
Max..	196	143	106	96	120	300	612	2090	2640	855	468	305
Min...	109	95	77	69	87	116	150	450	672	246	115	176
Acre-ft.	8920	6590	5640	4970	5530	9670	21060	86070	89340	29740	12620	12940

Total run-off for water year 1939-40=293,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1230	1020	821	835	765	706	1510	7140	11600	3520	1630	793
2....	1170	983	907	821	700	732	1460	7530	11700	3440	1640	793
3....	1170	1040	899	793	688	739	1510	8390	10300	3380	1560	843
4....	1160	1100	899	899	713	752	1800	8680	9740	3230	1520	828
5....	1160	1090	940	682	835	779	2000	8710	10500	3060	1300	807
6....	1150	1080	949	907	821	746	2250	9060	11000	2950	1130	821
7....	1130	793	907	915	700	739	2120	8940	10500	2810	1380	851
8....	1160	1040	924	752	807	752	1870	7690	9540	2720	1310	891
9....	1200	899	958	907	821	821	1740	7080	8620	2280	1400	949
10....	1240	1070	940	821	851	828	1810	7660	7720	2410	1390	940
11....	1260	1120	1100	867	713	821	1830	8520	7320	2300	1280	992
12....	1230	1110	940	883	739	821	1700	8740	7140	2220	1140	958
13....	1180	843	940	883	779	851	1600	8620	7170	2120	1040	983
14....	1170	765	700	891	765	915	1830	8260	7500	2020	1010	966
15....	1160	983	688	700	772	924	2090	8740	7910	1880	1020	983
16....	1130	835	821	746	915	924	2190	9900	7720	1770	1000	940
17....	1040	932	940	800	752	932	2060	10800	7410	1700	1040	807
18....	1080	974	875	851	520	940	1880	10400	6840	1670	1020	907
19....	1070	958	793	821	793	940	1740	10200	6030	1570	974	932
20....	1180	958	843	843	851	966	1730	11400	5170	1490	899	765
21....	1080	891	851	867	525	1170	1770	12300	4640	1430	899	720
22....	1030	875	915	899	664	1170	2160	12500	4300	1400	851	807
23....	1000	851	875	867	530	1200	2990	12800	4150	1210	793	700
24....	899	670	821	688	580	1480	3700	12700	4130	1330	793	814
25....	1020	658	779	676	779	1580	3620	11700	4190	1210	835	807
26....	992	752	732	688	800	1770	3500	10400	3980	1180	793	843
27....	1010	726	746	726	752	1960	3580	8840	4080	1160	758	821
28....	1170	726	732	752	628	2080	4170	8140	3880	1180	779	949
29....	958	694	779	915	....	1880	5270	8460	3720	1240	843	899
30....	1040	752	851	821	....	1640	6540	9350	3660	1500	758	867
31....	974	....	875	915	....	1540	....	10400	....	1570	800	....
Total	34443	27188	26740	25431	20558	34098	74020	294050	212160	62950	33585	25976
Mean.	1111	906	863	820	734	1100	2467	9485	7072	2031	1083	866
Max..	1260	1120	1100	915	915	2080	6540	12800	11700	3520	1640	992
Min...	899	658	688	676	520	706	1460	7080	3660	1160	758	700
Acre-ft.	68320	53930	53040	50440	40780	67630	146800	583200	420800	124900	66610	51520

Total run-off for water year 1938-39=1,728,000 acre-feet.

Discharge of Colorado River at Glenwood Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	821	780	618	673	598	821	983	2090	9640	2990	958	1320
2....	932	802	673	640	616	799	1130	1960	10300	3060	1000	1210
3....	907	765	638	676	700	760	1280	2160	10600	3310	1000	1020
4....	859	787	672	664	646	741	1310	2670	9960	3380	932	958
5....	875	951	730	616	652	713	1070	3860	9000	3360	859	924
6....	932	805	662	628	628	592	1050	3820	8490	3030	828	932
7....	915	831	620	592	652	709	1160	4190	7820	2790	786	940
8....	867	864	631	552	652	667	1110	4410	6720	2670	800	895
9....	1020	862	632	574	604	702	1000	4570	5970	2430	859	802
10....	1000	841	715	634	592	759	1000	4980	5220	2250	664	912
11....	949	675	638	652	598	750	966	5820	4640	2090	758	710
12....	1030	910	709	574	616	741	924	6840	4670	1910	843	996
13....	1090	750	685	658	547	764	835	7750	5120	1830	746	1060
14....	1050	812	580	558	580	561	867	7910	5730	1740	758	945
15....	1050	766	598	542	569	611	983	7140	6300	1670	835	975
16....	901	766	520	449	670	523	1200	7020	6270	1620	700	935
17....	903	736	663	506	545	737	1400	7500	6060	1580	634	932
18....	911	654	680	624	547	691	1430	7350	6030	1700	652	936
19....	796	627	508	436	580	759	1400	6750	5760	2060	765	943
20....	892	636	448	488	604	645	1420	6390	5450	2400	908	994
21....	832	574	514	552	564	719	1830	6270	5650	2090	542	1150
22....	1040	664	554	505	592	763	2120	6300	5480	1800	915	1100
23....	691	708	547	467	616	744	2170	5700	5270	1650	1000	949
24....	794	633	525	474	688	941	2140	5510	4740	1540	1020	1040
25....	761	717	490	598	732	945	2200	5680	4320	1430	983	1080
26....	750	602	513	569	746	1060	2400	6120	3940	1340	1070	1070
27....	766	692	385	670	752	1060	2580	6780	3720	1290	1340	1110
28....	873	775	369	646	765	1120	2690	7380	3480	1190	1500	1290
29....	851	633	405	640	758	1120	2600	7720	3270	1100	1590	1330
30....	728	709	495	610	....	1020	2350	7940	3120	1120	1540	1290
31....	778	....	554	616	....	983	....	8550	....	983	1480	....
Total	27564	22327	17971	18083	18409	24520	45598	179130	182740	63403	29265	30748
Mean.	889	744	580	583	635	791	1520	5778	6091	2045	944	1025
Max..	1090	951	730	676	765	1120	2690	8550	10600	3380	1590	1330
Min...	691	574	369	436	545	523	835	1960	3120	983	542	710
Ac.-ft.	54670	44280	35640	35870	36510	48630	90440	355300	362500	125800	58050	60990

Total run-off for water year 1939-40=1,309,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cameo, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1970	1830	1650	1600	1400	1300	2350	9300	17800	5370	2440	1340
2....	1950	1850	1720	1580	1280	1300	2360	9880	18300	5160	2340	1310
3....	1930	1830	1750	1560	1250	1320	2470	11000	16200	5040	2220	1270
4....	1940	1850	1800	1600	1280	1340	2680	11800	15700	4780	2130	1290
5....	1940	1950	1880	1600	1350	1360	3050	12200	16400	4640	2030	1420
6....	1970	1950	1990	1520	1480	1380	3180	13000	17500	4440	1860	1760
7....	2000	1890	1820	1600	1420	1340	3320	13200	16600	4280	1990	2240
8....	2160	1520	1790	1580	1380	1320	3070	11600	14900	4050	2180	2280
9....	2180	1810	1810	1580	1400	1400	2890	10300	13400	3770	2070	2070
10....	2180	1810	1820	1560	1380	1480	2920	10600	12000	3680	2090	2070
11....	2180	1950	1930	1560	1320	1500	2910	11300	11300	3450	2020	2070
12....	2150	1990	1950	1580	1300	1500	2810	13000	11300	3390	1860	2750
13....	2110	1950	1780	1600	1300	1510	2680	12600	11200	3230	1710	2170
14....	2070	1580	1780	1520	1320	1550	2780	11800	11800	3120	1570	2130
15....	2040	1550	1670	1400	1360	1600	3020	12200	12400	2910	1480	1990
16....	2050	1760	1760	1370	1400	1600	3180	13900	12100	2750	1480	1830
17....	2110	1680	1850	1350	1420	1620	3070	15000	11500	2680	1430	1750
18....	2010	1750	2000	1400	1250	1660	2880	15100	10600	2540	1460	1620
19....	2000	1760	1600	1420	1200	1700	2650	14800	9440	2440	1410	1660
20....	1950	1750	1580	1440	1350	1720	2730	16500	8260	2280	1320	1600
21....	2020	1780	1600	1480	1500	1810	2640	18000	7420	2140	1250	1520
22....	1940	1740	1620	1500	1340	2000	2890	18600	6710	2030	1270	1460
23....	1870	1660	1600	1500	1240	2100	3680	19100	6520	1950	1220	1390
24....	1860	1670	1520	1350	1300	2140	4820	18800	6520	1780	1210	1390
25....	1700	1520	1480	1250	1400	2420	4940	17400	6520	1830	1190	1410
26....	1800	1580	1420	1200	1420	2620	4560	15200	6470	1740	1220	1420
27....	1790	1600	1400	1280	1400	2880	4500	13200	6080	1660	1160	1430
28....	1770	1610	1400	1320	1350	2990	5020	12200	5960	1650	1220	1470
29....	1870	1600	1420	1450	....	2890	6300	12600	5750	1820	1250	1630
30....	1750	1580	1450	1520	....	2620	8060	14500	5520	2030	1250	1670
31....	1780	....	1520	1500	....	2420	....	16300	....	2290	1280	....
Total	61040	52350	52360	45770	37790	56390	104410	424980	331570	94920	50610	51410
Mean.	1969	1745	1689	1476	1350	1819	3480	13710	11050	3062	1633	1714
Max..	2180	1990	2000	1600	1500	2990	8060	19100	18300	5370	2440	2750
Min...	1750	1520	1400	1200	1200	1300	2350	9300	5520	1650	1160	1270
Ac.-ft.	121100	103800	103900	90780	74960	111800	207100	842900	657700	188300	100400	102000

Total run-off for water year 1938-39=2,705,000 acre-feet.

Discharge of Colorado River Near Cameo, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1620	1370	1160	1000	1030	1250	1520	3500	14100	4170	1410	1870
2....	1550	1410	1130	1100	1050	1280	1580	3190	15300	4090	1360	1690
3....	1600	1470	1120	1090	1100	1250	1720	3210	15700	4020	1340	1560
4....	1600	1410	1070	1100	1120	1180	1750	3960	15100	4120	1340	1440
5....	1600	1370	1120	1100	1060	1150	1700	5190	13600	4100	1290	1410
6....	1580	1520	1150	1100	1000	1160	1600	6150	12400	3910	1240	1360
7....	1630	1410	1080	1080	950	1050	1630	6610	11400	3560	1210	1350
8....	1680	1460	1060	1030	1000	1140	1670	7080	10100	3370	1180	1340
9....	1630	1470	1070	980	1000	1120	1590	7280	8980	3160	1170	1260
10....	1710	1440	1070	1090	970	1110	1540	8120	7960	2940	1180	1230
11....	1700	1460	1130	1140	980	1200	1470	9230	7020	2780	980	1270
12....	1650	1310	1070	1180	1020	1220	1450	10400	6780	2580	1050	1110
13....	1720	1420	1140	1080	1010	1170	1350	11700	7490	2420	1110	1430
14....	1750	1340	1080	1110	970	1130	1310	12500	8440	2290	1060	1510
15....	1710	1340	1000	980	1060	980	1430	11500	9280	2180	1060	1500
16....	1660	1310	1020	860	1070	1070	1680	10800	9170	2110	1130	1520
17....	1560	1280	962	920	1090	1060	1930	11600	8750	2070	1010	1480
18....	1500	1280	1020	1060	940	1200	2000	11400	8840	2130	940	1630
19....	1570	1210	1060	980	970	1150	2000	10100	8610	2230	970	1750
20....	1420	1150	944	890	1050	1240	2090	9480	8190	2550	1090	1910
21....	1460	1160	854	960	1030	1130	2390	9340	7960	2700	1180	1890
22....	1430	1140	1060	1030	1020	1210	3000	9030	7990	2370	950	2050
23....	1600	1160	1080	920	1090	1230	3260	8720	7700	2130	1270	2160
24....	1320	1230	980	830	1280	1270	3450	8390	7080	2030	1580	1970
25....	1390	1180	917	880	1280	1460	3820	8780	6320	1890	1480	2000
26....	1480	1210	900	960	1430	1580	3860	9260	5720	1770	1720	1990
27....	1480	1150	930	960	1380	1730	3910	9820	5280	1690	1780	1960
28....	1390	1230	720	1100	1320	1870	4340	10600	4880	1690	2020	2030
29....	1390	1240	700	1080	1290	1760	4250	11400	4430	1570	2120	3000
30....	1440	1140	820	1060	....	1660	3910	12000	4320	1500	2090	3060
31....	1340	....	1080	1040	....	1540	....	12800	....	1470	1990	....
Total	48160	39270	31497	31690	31560	39550	69200	273140	268870	81590	41300	51730
Mean.	1554	1309	1016	1022	1088	1276	2307	8811	8962	2632	1332	1724
Max..	1750	1520	1160	1180	1430	1870	4340	12800	15700	4170	2120	3060
Min...	1320	1140	700	830	940	980	1310	3190	4320	1470	940	1110
Ac.-ft.	95520	77890	62470	62860	62600	78450	137300	541800	533300	161800	81920	102600

Total run-off for water year 1939-40=1,999,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cisco, Utah, for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3030	3030	3120	2500	2650	2650	5650	16600	22100	5880	2590	1630
2....	3120	3210	3030	2550	2650	2600	6340	17700	24100	5650	2760	1590
3....	3030	3490	3210	2600	2400	2600	7430	19700	23300	5540	2590	1520
4....	2760	3580	3300	2700	2350	2600	9000	20500	20900	5320	2350	1460
5....	2850	3490	3210	2700	2350	2600	10900	20500	20500	5100	2170	2500
6....	2940	3400	3300	2700	2500	2600	10900	21300	22100	4890	2220	3300
7....	2940	3600	3300	2600	2700	2600	10300	22500	22900	4580	2590	6340
8....	5320	3500	3210	2800	2600	2600	9070	20500	20900	4370	2400	4580
9....	4370	2900	3030	2750	2500	2700	8500	17300	18900	3970	3120	3970
10....	4580	3210	3120	2800	2550	2900	9070	16600	17300	3680	2760	3870
11....	4270	3780	3120	2850	2450	3000	9070	18100	15800	3490	2500	4890
12....	4170	3970	3210	2850	2350	3000	8780	19700	15400	3300	2270	5650
13....	4070	3970	3210	2800	2450	3000	8500	19700	15400	3120	1960	5540
14....	3970	3580	2940	2800	2350	2950	8220	18500	15800	2850	1640	5000
15....	3870	3210	2680	2700	2450	3100	8220	17300	16600	2680	1470	4580
16....	3780	3210	2590	2550	2550	3300	7690	18100	16600	2500	1340	4170
17.. ..	3780	3400	2500	2400	2500	3200	7180	19300	15100	2370	1220	3780
18....	3970	3580	2760	2450	2600	3600	6450	19700	14300	2340	1140	3400
19....	3970	3580	2850	2550	2350	4070	5990	18900	12900	2230	1110	3120
20....	3870	3400	2850	2600	2200	4170	5760	19300	11200	2120	1060	2940
21....	3680	3400	2760	2600	2500	4470	6100	21700	9660	1930	1060	2760
22....	3680	3400	2940	2600	2600	5320	6450	23300	8780	1770	1030	2590
23....	3580	3400	2940	2600	2450	6100	7950	24100	7690	1650	960	2420
24....	3490	3100	2900	2650	2300	6930	10300	25000	7430	1600	960	2340
25....	3300	2800	2700	2600	2400	7950	10900	23700	7430	1520	970	2220
26....	3120	2800	2500	2400	2650	8500	10300	21300	7430	1510	950	2250
27....	3120	2800	2400	2250	2800	9000	9360	18100	7180	1470	904	2140
28....	3030	2760	2300	2300	2750	9000	9660	16200	6930	1510	1290	2220
29....	2940	2590	2300	2300	....	8500	11200	16200	6450	1550	2010	2500
30....	3120	2900	2400	2600	....	8000	14300	17300	6100	1720	2200	2590
31....	3030	....	2450	2700	....	7000	....	20100	....	2350	1770	....
Total	110750	99040	89130	80850	69950	140610	259540	608800	437180	94560	55364	97860
Mean.	3573	3301	2875	2608	2498	4536	8651	19640	14570	3050	1786	3262
Max..	5320	3970	3300	2850	2800	9000	14300	25000	24100	5880	3120	6340
Min...	2760	2590	2300	2250	2200	2600	5650	16200	6100	1470	904	1460
Ac.-ft.	219700	196400	176800	160400	138700	278900	514800	1208000	867100	187600	109800	194100

Total run-off for water year 1938-39=4,252,000 acre-feet.

Discharge of Colorado River Near Cisco, Utah, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2590	2270	2420	1840	2420	2850	3680	10300	20100	4580	1460	2420
2....	2590	2270	2420	2060	2590	2680	3780	9660	21700	4580	1320	2200
3....	2500	2500	2230	2400	2850	2680	3970	9360	22500	4370	1200	2040
4....	2590	2500	2370	2420	2760	2590	3780	9660	22500	4170	1200	2040
5....	2680	2590	2220	2420	2760	2500	3400	11900	20500	4270	1200	1740
6....	2680	2590	2270	2420	2500	2420	3490	14700	18900	4170	1200	1650
7....	2760	2680	2320	2320	2370	2370	3400	15100	17300	3870	1220	1580
8....	2420	2680	2270	2250	2300	2350	3680	16200	15400	3490	1080	1480
9....	2680	2680	2170	2190	2280	2390	3680	16600	14000	3210	970	1380
10....	2500	2760	2200	2110	2190	2300	3490	17300	12600	3630	913	1410
11....	2590	2680	2230	2190	2110	2340	3490	19700	11700	2760	922	1390
12....	2590	2760	2320	2390	2140	2420	3210	22100	10800	2590	895	1440
13....	2500	2590	2200	2590	2150	2500	3210	23300	9960	2350	841	1430
14....	2590	2760	2120	2400	2110	2400	3300	25000	10600	2190	796	1460
15....	2590	2590	2190	2120	2140	2270	3580	24100	11600	2060	796	1810
16....	2500	2680	1920	1780	2150	2190	4270	22500	12200	2090	744	1950
17....	2500	2590	1820	1710	2190	2120	5320	21300	11900	4470	712	2120
18....	2300	2680	1800	1600	2140	2200	5320	22500	11200	2940	728	2500
19....	2270	2320	1980	1840	2030	2370	5320	21300	11200	2680	704	3030
20....	2220	2350	2140	1750	1920	2390	5760	18500	10600	2680	712	3580
21....	2190	2390	1980	1780	2120	2420	7430	16600	9960	2850	980	3580
22....	2110	2300	1670	1930	2060	2370	9660	15800	9360	3030	1080	4270
23....	2120	2320	1770	1960	2030	2500	10900	15100	9360	2680	1150	3970
24....	2120	2420	1860	1750	2070	2680	10900	14300	8780	2420	1200	3970
25....	2040	2500	2110	1900	2420	2850	11600	14300	7950	2200	1900	3870
26....	1950	2420	1980	1990	2760	3300	12200	15100	7180	2030	3120	3870
27....	2190	2500	1780	2200	3400	3580	11900	15400	6340	1720	3210	3780
28....	2370	2420	1710	2350	3300	4370	12900	16600	5880	1540	2850	3680
29....	2270	2590	1750	2500	3030	4890	12200	17700	5440	1590	2940	9430
30....	2350	2590	1460	2500	....	4580	10600	18100	5000	1600	2850	7560
31....	2270	....	1670	2390	....	3970	....	18500	....	1580	2680	....
Total	74620	75970	63350	68050	69290	85840	189420	528580	372510	90390	43573	86630
Mean.	2407	2532	2044	2131	2389	2769	6314	17050	12420	2916	1406	2888
Max..	2760	2760	2420	2590	3400	4890	12900	25000	22500	4580	3210	9430
Min...	1950	2270	1460	1600	1920	2120	3210	9360	5000	1540	704	1380
A.-ft.	148000	150700	125700	131000	137400	170300	375700	1048000	738900	179300	86400	171800

Total run-off for water year 1939-40=3,463,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arapaho Creek Below Monarch Lake, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	10	9.5	7.5	6.5	8	12	294	562	194	68	13
2....	17	10	9.5	8	6.5	8	10	353	458	188	62	13
3....	17	10	9	8	6.5	8	11	391	426	188	56	12
4....	17	10	9	7.5	6.5	8	9.5	342	506	184	50	12
5....	17	11	9	7.5	6.5	8	9.0	361	592	168	44	12
6....	17	10	9	7.5	6.5	8	9.5	372	566	153	43	12
7....	16	10	8.5	7.5	7	8	9.5	294	490	141	53	13
8....	16	10	8.5	7.5	7	8	9.5	252	422	135	64	14
9....	16	12	8.5	7	7	8.5	9.5	276	383	132	60	15
10....	16	13	8.5	7	6.5	8.5	10	342	330	129	53	14
11....	16	12	8	7	6.5	8.5	11	320	353	126	44	16
12....	16	11	8	7	6.5	8.5	15	305	368	118	44	16
13....	15	10	8	7	6.5	8.5	16	266	430	112	43	16
14....	14	10	8	7	6.5	8.5	16	302	458	110	41	16
15....	14	10	8	7	7	8.5	17	387	482	101	40	17
16....	13	11	8	7	7	9	18	383	494	99	40	17
17....	13	14	8	6.5	7	9	17	312	470	96	37	17
18....	14	12	8	6.5	7	9	17	320	305	83	33	17
19....	16	12	8	6.5	7	9	18	372	273	76	31	17
20....	17	11	8	6.5	7	9.5	19	430	235	66	24	16
21....	18	10	8	6.5	7	9.5	21	395	214	62	19	15
22....	18	10	8.5	6.5	7	10	23	418	191	58	18	14
23....	19	9.5	8	6.5	7.5	10	25	454	191	53	17	13
24....	19	9.5	8	6.5	7.5	11	30	446	204	48	17	14
25....	17	9.5	8	6.5	8	11	36	361	225	44	14	13
26....	17	9	8	6.5	8	11	38	284	235	44	14	13
27....	14	9	8	6.5	8	12	44	242	228	51	13	14
28....	14	9.5	8	6.5	8	12	72	245	228	51	13	14
29....	13	9.5	8	6.5	....	12	172	387	208	51	13	15
30....	12	9.5	8	6.5	....	13	259	554	197	60	13	17
31....	11	....	8	....	....	13	....	579	...	68	12	....
Total	487	314	257.5	214.5	195.5	293.5	983.5	11039	10724	3189	1093	437
Mean.	15.7	10.5	8.3	6.9	7.0	9.5	32.8	356	357	103	35.3	14.6
Max..	19	14	9.5	8	8	13	259	579	592	194	68	17
Min...	11	9	8	6.5	6.5	8	9	242	191	44	12	12
Acre-ft.	966	623	511	425	388	582	1950	21900	21270	6330	2170	867

Total run-off for water year 1938-39=57,980 acre-feet.

Discharge of Arapaho Creek Below Monarch Lake, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	11	9.6	7.9	6.5	6.4	12	54	611	208	39	63
2....	18	11	9.6	7.8	6.5	6.4	12	50	638	228	30	52
3....	18	11	9.6	7.7	6.4	6.5	12	61	594	242	31	46
4....	19	11	9.6	7.8	6.4	6.5	10	102	514	218	32	45
5....	19	12	9.6	7.9	6.3	6.5	11	155	558	158	31	44
6....	20	13	9.0	7.7	6.3	6.4	11	201	484	181	32	40
7....	20	13	9.0	7.6	6.2	6.4	11	211	373	188	33	38
8....	20	13	8.4	7.6	6.3	6.6	11	211	310	168	33	44
9....	20	11	8.1	7.6	6.3	6.9	11	235	276	148	31	46
10....	21	12	7.8	7.7	6.3	7.1	10	314	256	136	30	42
11....	21	11	8.1	7.6	6.3	7.0	13	339	290	131	29	40
12....	20	11	8.1	7.6	6.2	6.9	11	354	346	136	26	38
13....	20	12	7.8	7.6	6.1	6.7	11	350	369	131	25	38
14....	21	11	7.8	7.6	6.0	6.6	12	283	484	120	23	39
15....	21	11	8.1	7.4	5.9	6.8	13	269	528	109	23	38
16....	20	11	8.2	7.1	5.9	7.0	14	300	453	104	22	36
17....	20	11	8.3	6.8	5.9	7.2	16	321	441	112	21	34
18....	19	11	8.2	6.8	5.9	7.4	19	303	392	191	21	33
19....	19	11	8.0	6.8	6.0	7.7	30	266	380	184	20	34
20....	18	11	7.7	6.8	6.1	8.0	34	259	384	142	20	36
21....	17	11	7.6	6.7	6.0	8.6	42	235	365	125	21	38
22....	16	11	7.5	6.5	6.0	8.7	50	201	346	117	21	40
23....	15	11	7.5	6.4	5.9	8.9	58	191	324	104	22	44
24....	14	10	7.6	6.3	5.9	9.2	61	208	310	92	24	42
25....	14	11	7.6	6.3	6.0	10	63	242	290	82	38	42
26....	14	11	7.5	6.3	6.2	12	67	276	279	78	78	48
27....	13	10	7.4	6.2	6.2	11	78	332	252	67	131	54
28....	11	10	7.4	6.1	6.3	11	89	342	252	65	142	56
29....	11	10	7.2	6.1	6.4	10	80	396	245	61	122	58
30....	11	10	7.3	6.2	....	10	63	437	222	58	94	58
31....	12	....	7.7	6.4	....	11	....	484	....	56	76	....
Total	540	334	252.9	218.9	178.7	247.4	935	7982	11566	4140	1321	1306
Mean.	17.4	11.1	8.16	7.06	6.16	7.98	31.2	257	386	134	42.6	43.5
Max..	21	13	9.6	7.9	6.5	12	89	484	638	242	142	63
Min...	11	10	7.2	6.1	5.9	6.4	10	50	222	56	20	33
Acre-ft.	1070	662	502	434	354	491	1850	15830	22940	8210	2620	2590

Total run-off for water year 1939-40=57,550 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Willow Creek Near Granby, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	15	13	11	11	12	21	363	370	57	27	14
2....	16	15	13	11	11	12	21	414	327	52	24	13
3....	16	14	13	12	11	13	26	464	298	51	22	12
4....	16	16	12	12	11	13	29	433	298	49	21	12
5....	16	14	12	11	11	13	31	464	315	46	20	12
6....	16	14	12	11	11	13	30	506	305	44	22	13
7....	16	14	12	11	11	13	32	453	281	41	30	14
8....	16	15	12	11	11	13	32	409	250	40	24	14
9....	17	15	12	11	11	13	34	428	226	37	22	14
10....	17	16	12	11	11	13	33	495	204	36	19	12
11....	17	16	12	11	11	13	31	512	189	35	19	12
12....	16	15	12	11	11	13	34	492	178	34	19	13
13....	16	15	11	11	11	13	39	436	168	33	18	12
14....	16	14	11	11	11	14	46	412	164	31	18	12
15....	16	13	11	11	11	14	47	417	160	28	17	11
16....	15	14	11	11	11	14	44	442	151	27	17	11
17....	15	14	11	11	11	14	35	450	140	27	16	11
18....	15	14	11	11	11	14	35	470	122	26	16	10
19....	15	14	11	11	11	15	36	518	121	26	15	10
20....	13	14	11	11	12	15	39	539	112	25	14	10
21....	14	14	11	11	12	16	50	515	110	23	14	10
22....	15	14	11	11	12	16	77	500	100	23	15	10
23....	14	14	11	11	12	17	137	498	88	23	14	11
24....	14	14	11	11	12	18	129	470	86	23	14	12
25....	15	13	11	12	12	19	115	428	82	23	15	12
26....	15	13	11	12	12	20	118	368	74	24	15	11
27....	15	13	11	12	12	22	144	320	68	24	15	11
28....	15	13	11	12	12	22	216	298	64	24	17	12
29....	14	13	11	11	....	23	303	298	61	25	17	13
30....	14	13	11	11	....	24	341	322	59	25	16	12
31....	15	....	11	11	....	22	....	348	....	25	15	....
Total	476	425	356	347	317	486	2305	13482	5181	1007	567	356
Mean.	15.4	14.2	11.5	11.2	11.3	15.7	76.8	435	173	32.5	18.3	11.9
Max..	17	16	13	12	12	24	341	539	370	57	30	14
Min...	13	13	11	11	11	12	21	298	59	23	14	10
Acre-ft.	944	843	706	688	629	964	4570	26740	10280	2000	1120	706

Total run-off for water year 1938-39=50,190 acre-feet.

Discharge of Willow Creek Near Granby, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	11	11	8.5	7.9	8.7	18	63	226	49	16	13
2....	11	12	11	8.4	8.2	8.8	19	76	228	51	15	12
3....	11	10	11	8.2	8.2	9.0	16	139	228	44	15	12
4....	13	10	11	8.4	8.5	9.0	16	184	212	43	14	13
5....	13	12	11	8.6	8.6	9.0	16	224	204	40	13	13
6....	13	12	10	8.5	8.6	9.0	17	240	200	47	13	12
7....	12	11	10	8.4	8.6	9.0	16	240	176	37	13	11
8....	12	10	10	8.4	8.7	9.0	16	243	153	34	14	11
9....	14	10	9.0	8.5	8.6	9.5	16	248	132	33	13	11
10....	13	9.5	8.5	8.5	8.6	9.8	15	262	118	31	12	11
11....	12	10	9.0	8.5	8.5	9.7	13	274	107	30	13	11
12....	12	11	9.0	8.4	8.4	9.5	14	281	101	31	12	11
13....	12	12	9.0	8.4	8.3	9.2	14	298	98	27	11	11
14....	12	11	8.6	8.4	8.2	9.0	21	274	96	26	11	12
15....	11	11	9.0	8.2	8.1	9.3	27	260	95	24	11	12
16....	11	11	9.0	8.0	8.1	9.6	29	272	91	24	11	11
17....	11	11	9.0	8.0	8.0	10	29	272	86	28	11	11
18....	11	11	9.0	8.0	8.0	10	31	255	82	48	11	11
19....	11	11	8.6	8.0	7.9	11	42	233	77	49	12	11
20....	11	11	8.6	8.0	7.8	12	55	224	75	32	13	11
21....	11	12	8.5	8.0	7.8	12	71	238	76	27	12	11
22....	10	12	8.5	7.8	7.9	13	82	212	70	26	16	11
23....	10	12	8.5	7.8	8.0	15	76	198	66	22	15	11
24....	11	11	8.6	7.8	8.0	17	88	191	59	22	17	11
25....	10	12	8.6	7.7	8.2	22	104	193	55	19	20	11
26....	11	12	8.6	7.6	8.3	20	112	202	51	18	25	12
27....	11	12	8.6	7.6	8.4	16	118	224	48	17	27	14
28....	11	11	8.4	7.6	8.5	16	112	216	45	18	26	13
29....	11	11	8.2	7.5	8.6	15	100	212	43	18	18	16
30....	10	11	8.4	7.5	....	15	82	214	39	17	15	15
31....	10	....	8.6	7.8	....	18	....	214	....	17	13	....
Total	353	333.5	284.8	251.0	239.5	369.1	1385	6876	3337	949	458	356
Mean.	11.4	11.1	9.19	8.10	8.26	11.9	46.2	222	111	30.6	14.8	11.9
Max..	14	12	11	8.6	8.7	22	118	298	228	51	27	16
Min...	10	9.5	8.2	7.5	7.8	8.7	13	63	39	17	11	11
Acre-ft.	700	661	565	498	475	732	2750	13640	6620	1880	908	706

Total run-off for water year 1939-40=30,140 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fraser River Near West Portal (Arrow), Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.0	14	11	9.8	8.9	8.2	9.0	65	32	29	6.2	3.9
2....	5.2	13	11	9.4	8.6	8.2	10	74	22	7.8	5.9	3.7
3....	5.2	14	11	9.4	8.0	8.4	11	65	20	7.2	5.6	3.7
4....	5.2	15	11	9.4	7.8	8.4	12	54	20	7.2	5.2	3.7
5....	5.2	15	11	9.4	7.8	8.6	13	45	40	7.2	5.2	3.7
6....	5.3	15	11	9.4	8.0	8.2	14	35	156	7.2	5.6	3.9
7....	5.8	15	11	9.4	7.8	8.2	15	23	126	6.8	7.5	3.9
8....	5.3	16	11	9.4	7.8	8.0	12	24	101	6.8	5.9	3.9
9....	5.3	16	11	9.4	7.8	7.5	12	24	87	6.5	5.2	3.4
10....	5.5	15	11	9.4	8.9	7.5	12	23	59	6.5	4.9	3.2
11....	5.8	16	11	8.9	9.4	7.5	13	23	44	6.2	4.9	3.2
12....	5.5	17	11	7.8	9.4	7.5	16	23	39	5.9	4.9	3.2
13....	5.5	17	11	8.9	8.4	7.5	17	23	54	5.9	4.9	3.2
14....	5.5	17	11	8.9	7.8	7.5	18	21	46	6.2	4.9	3.2
15....	5.5	15	11	9.4	7.5	7.5	17	20	50	6.2	4.9	3.2
16....	5.5	14	11	9.4	7.5	8.0	16	21	40	6.2	4.6	3.0
17....	5.5	13	10	8.9	8.9	8.0	16	22	29	6.5	4.6	3.0
18....	5.5	13	10	8.9	7.5	8.0	17	20	14	5.9	4.6	3.0
19....	5.8	12	10	8.0	8.0	8.0	16	20	13	5.6	4.6	3.0
20....	7.8	12	10	8.4	9.4	8.0	16	20	13	5.2	4.6	3.0
21....	30	13	10	8.0	8.8	8.2	20	20	14	5.2	4.6	3.0
22....	17	12	9.8	8.0	8.4	8.4	27	21	13	5.2	4.6	3.0
23....	15	11	9.8	8.0	8.0	8.4	27	21	12	5.2	4.4	3.2
24....	15	11	9.8	7.8	8.2	8.6	25	22	11	5.2	4.4	3.2
25....	15	11	9.8	7.2	8.4	8.6	24	23	11	5.2	4.6	3.2
26....	16	12	9.8	7.8	8.0	9.0	27	24	11	5.6	4.4	3.2
27....	16	13	9.6	8.2	8.0	8.6	38	22	10	5.9	4.6	3.2
28....	15	13	9.6	8.4	7.8	8.8	41	20	9.9	5.9	4.6	3.7
29....	15	13	9.4	8.4	....	8.8	52	19	9.5	5.6	5.2	3.9
30....	14	12	9.4	8.4	....	8.6	54	19	9.5	6.2	4.4	3.7
31....	15	....	10	8.0	....	8.8	....	26	....	6.5	4.4	....
Total	293.9	415	323.0	270.1	230.8	253.5	617.0	882	1115.9	213.7	154.9	101.3
Mean.	9.48	13.8	10.4	8.71	8.24	8.18	20.6	28.5	37.2	6.89	5.00	3.38
Max..	30	17	11	9.8	9.4	9.0	54	74	156	29	7.5	3.9
Min...	5.0	11	9.4	7.3	7.5	7.5	9.0	19	9.5	5.2	4.4	3.0
Acre-ft.	583	823	641	536	458	503	1220	1750	2210	424	307	201

Total run-off for water year 1938-39=9,660 acre-feet.

Discharge of Fraser River Near Winter Park, Colorado (Formerly Called West Portal), for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.7	4.9	7.4	8.6	8.2	8.7	16	12	14	9.1	4.4	4.1
2....	3.7	4.9	7.6	8.6	8.2	8.0	17	13	14	10	4.1	3.9
3....	3.4	4.6	7.4	9.0	8.2	7.6	15	14	15	9.5	4.1	4.1
4....	4.1	4.4	7.2	9.2	7.8	7.4	13	13	15	9.1	3.9	4.6
5....	4.9	4.4	7.0	9.0	7.8	7.8	14	13	16	9.1	3.9	4.4
6....	4.9	4.6	6.7	8.6	7.8	8.6	17	13	18	8.6	3.9	4.1
7....	4.9	4.4	6.9	8.6	7.8	8.6	16	13	17	7.8	4.1	4.1
8....	4.9	4.1	7.8	8.6	7.8	8.6	16	14	17	7.5	4.1	4.1
9....	5.6	4.1	8.4	8.8	7.8	8.4	16	13	16	7.2	4.1	5.2
10....	5.6	4.1	8.4	9.2	7.5	8.8	14	13	15	7.2	3.9	5.9
11....	5.6	4.1	8.0	9.0	8.6	8.0	14	13	14	7.5	3.9	4.6
12....	5.6	4.1	7.4	9.0	8.4	7.1	16	12	14	7.2	3.9	4.1
13....	5.6	3.9	7.2	9.0	8.2	7.1	20	14	13	6.5	3.9	4.6
14....	5.6	3.9	7.4	8.8	8.0	7.1	23	12	13	6.5	3.7	4.6
15....	5.2	6.5	7.8	8.2	8.0	7.2	30	11	12	7.5	3.7	4.4
16....	5.2	11	8.2	8.4	7.6	7.4	30	12	12	7.2	3.7	4.4
17....	5.2	10	8.2	8.0	7.3	7.6	27	14	12	7.5	3.7	4.4
18....	5.2	9.8	7.6	7.5	7.8	7.8	31	15	12	9.1	3.7	4.6
19....	4.9	9.8	7.4	7.4	8.4	7.8	31	12	12	7.8	3.9	4.9
20....	4.9	9.2	7.4	8.2	8.8	7.8	26	12	12	6.2	3.9	4.9
21....	4.9	8.6	7.4	8.6	8.6	7.2	26	14	14	5.6	4.6	4.9
22....	4.9	8.4	7.2	7.5	9.1	7.8	22	12	12	5.6	5.2	4.6
23....	4.9	8.2	7.6	8.0	9.4	8.6	16	12	11	5.2	4.6	4.4
24....	4.9	8.0	7.4	8.1	9.0	9.9	13	12	10	5.2	5.2	4.4
25....	4.9	7.7	7.6	8.6	8.9	10	14	12	9.9	4.9	6.5	4.4
26....	5.2	7.8	7.8	9.0	8.6	10	16	13	9.5	4.9	5.6	6.5
27....	5.2	8.0	7.6	9.1	8.8	10	17	15	9.5	5.6	5.2	6.2
28....	4.9	7.6	7.4	9.1	9.2	9.5	14	14	8.6	5.9	4.9	5.2
29....	5.2	7.4	7.4	8.6	9.0	7.8	12	13	8.2	5.2	4.4	5.2
30....	4.9	7.2	7.6	8.6	....	6.8	9.9	13	8.6	4.6	4.1	5.9
31....	4.9	....	8.0	8.2	....	9.1	....	13	....	4.4	4.1	....
Total	153.5	195.7	234.4	265.1	240.6	254.1	561.9	401	384.3	215.2	132.9	141.7
Mean.	4.95	6.52	7.56	8.55	8.30	8.20	18.7	12.9	12.8	6.94	4.29	4.72
Max..	5.6	11	8.4	9.2	9.4	10	31	15	18	10	6.5	6.5
Min...	3.4	3.9	6.7	7.4	7.3	6.8	9.9	11	8.2	4.4	3.7	3.9
Acre-ft.	304	388	465	526	477	504	1110	795	762	427	264	281

Total run-off for water year 1939-40=6,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Fraser River Near Winter Park, Colorado, for Diversion by Moffat Tunnel Above Station. For Water Year October 1, 1938, to September 30, 1939.

Month	Runoff in Acre-Feet	Diverted by Moffat Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	583	436	1020
November	823	0	823
December	641	0	641
January	536	0	536
February	458	0	458
March	503	0	503
April	1220	0	1220
May	1750	4380	6130
June	2210	6220	8430
July	424	2280	2700
August	307	1000	1310
September	201	653	854
Total run-off for water year 1938-1939	9660	14970	24620

For Water Year October 1, 1939, to September 30, 1940.

October	304	522	826
November	388	226	614
December	465	0	465
January	526	0	526
February	477	0	477
March	504	0	504
April	1110	197	1310
May	795	3220	4020
June	762	6610	7370
July	427	2530	2960
August	264	1030	1290
September	281	904	1180
Total run-off for water year 1939-40	6300	15240	21540

Discharge of Fraser River at Granby, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	55	62	54	36	34	37	106	420	815	157	68	35
2....	57	62	52	36	33	37	151	490	656	116	57	33
3....	62	59	52	37	33	38	176	506	534	100	44	29
4....	61	71	54	37	34	38	196	474	578	91	43	28
5....	61	71	58	36	34	38	217	479	632	89	40	28
6....	66	55	56	35	34	39	157	501	732	85	43	31
7....	73	64	54	34	34	41	116	405	644	73	83	39
8....	68	75	52	34	33	42	109	375	539	70	66	39
9....	64	77	54	34	33	45	148	395	501	62	54	36
10....	64	85	58	34	32	46	129	452	474	59	47	31
11....	62	85	56	34	32	47	109	436	410	55	46	30
12....	61	77	48	33	33	48	118	436	390	52	44	30
13....	57	54	43	32	34	49	170	415	400	51	40	31
14....	57	54	40	32	35	50	183	436	431	47	37	31
15....	59	58	42	32	35	52	160	469	425	43	36	30
16....	55	66	44	32	34	54	129	463	405	47	35	28
17....	55	69	45	32	34	56	109	447	365	44	34	28
18....	55	66	43	32	34	58	102	458	304	40	35	27
19....	59	64	39	32	34	58	140	501	261	40	30	27
20....	52	60	39	32	35	56	123	528	235	37	26	27
21....	66	59	41	32	36	58	151	517	235	34	29	26
22....	79	57	41	32	37	62	239	539	232	29	33	25
23....	66	58	40	32	37	68	296	573	193	28	29	27
24....	61	60	38	32	38	72	242	573	170	27	28	30
25....	62	64	37	33	38	78	232	556	183	27	30	33
26....	64	62	36	33	38	78	235	517	167	28	30	33
27....	64	54	38	34	37	78	273	436	145	37	36	33
28....	66	53	39	34	37	82	342	400	129	47	36	31
29....	61	54	39	35	....	88	410	425	121	41	43	36
30....	61	56	38	35	....	96	410	517	116	49	43	35
31....	64	....	37	35	....	105	....	620	....	87	40	....
Total	1917	1911	1407	1043	972	1794	5678	14759	11417	1792	1285	927
Mean.	61.8	63.7	45.4	33.6	34.7	57.9	189	476	381	57.8	41.5	30.9
Max..	79	85	58	37	38	105	410	620	815	157	83	39
Min...	52	53	36	32	32	37	102	375	116	27	26	25
Acre-ft.	3800	3790	2790	2070	1930	3560	11260	29270	22650	3550	2550	1840

Total run-off for water year 1938-39=89,060 acre-feet.

Discharge of Fraser River at Granby, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	31	38	44	45	41	47	111	118	420	89	28	37
2....	33	37	47	43	40	46	106	134	431	148	31	37
3....	31	36	46	43	40	45	79	164	436	145	34	37
4....	35	35	46	43	40	44	81	190	400	140	36	54
5....	41	39	46	44	39	46	87	221	420	121	35	47
6....	41	41	45	43	38	47	93	228	431	134	33	43
7....	40	37	45	41	39	46	75	254	365	91	35	41
8....	37	36	44	41	39	46	70	239	338	75	37	39
9....	49	35	44	39	39	47	81	235	304	66	40	47
10....	47	35	44	39	39	48	79	280	254	57	39	64
11....	44	35	42	39	38	48	71	338	246	61	46	55
12....	41	36	41	37	36	46	64	361	250	70	37	47
13....	40	37	42	36	34	44	77	390	254	52	35	44
14....	40	38	43	36	33	44	113	342	288	44	31	49
15....	37	39	44	35	32	45	157	324	292	39	30	47
16....	37	39	44	36	34	47	145	338	284	46	30	44
17....	36	39	43	35	33	49	104	365	273	75	29	44
18....	35	38	41	34	33	48	126	380	254	183	27	47
19....	35	40	41	33	35	50	190	304	228	137	27	52
20....	35	41	42	34	35	54	232	288	221	87	35	79
21....	35	42	41	34	34	58	242	380	304	71	40	54
22....	35	43	39	33	36	58	203	320	300	62	55	51
23....	34	43	40	34	38	58	142	273	207	43	43	49
24....	34	42	38	35	41	70	151	261	170	34	46	46
25....	31	41	40	36	41	84	145	269	132	34	75	44
26....	34	41	41	37	42	92	154	296	134	30	71	57
27....	36	43	41	36	43	80	173	400	116	29	68	79
28....	35	43	39	38	44	70	170	375	91	33	66	62
29....	37	43	41	39	46	61	142	365	81	36	52	62
30....	36	42	43	39	....	66	129	361	77	39	44	64
31....	38	....	45	40	....	91	....	390	....	35	40	....
Total	1150	1174	1322	1177	1102	1725	3792	9183	8001	2308	1275	1522
Mean.	37.1	39.1	42.6	38.0	38.0	55.6	126	296	267	74.4	41.1	50.7
Max..	49	43	47	45	46	92	242	400	436	183	75	79
Min...	31	35	38	33	32	44	64	118	77	29	27	37
Acre-ft.	2280	2330	2620	2330	2190	3420	7520	18210	15870	4570	2530	3020

Total run-off for water year 1939-40=66,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Fraser River at Granby for Diversion by Moffat Tunnel for Water Year October 1, 1938, to September 30, 1939.

Month	Runoff in Acre-Feet	Diversion by Moffat Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	3800	1220	5020
November	3790	0	3790
December	2790	0	2790
January	2070	0	2070
February	1930	0	1930
March	3560	0	3560
April	11260	0	11260
May	29270	8550	37820
June	22650	12570	35220
July	3550	4880	8430
August	2550	2230	4780
September	1840	1410	3250
Total run-off for water year 1938-1939	89060	30860	119900

For Water Year October 1, 1939, to September 30, 1940.

October	2280	1090	3370
November	2330	401	2730
December	2620	0	2620
January	2330	0	2330
February	2190	0	2190
March	3420	0	3420
April	7520	232	7750
May	18210	6080	24290
June	15970	12170	28040
July	4570	5320	9890
August	2530	2210	4740
September	3020	1890	4910
Total run-off for water year 1939-1940	66890	29390	96280

Discharge of Vasquez Creek Near West Portal, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.0	15	13	8.5	6.0	7.4	7.8	34	11	35	5.1	2.7
2....	4.3	15	12	8.5	5.7	7.8	8.2	39	10	5	4.6	2.7
3....	4.6	15	10	8.5	5.7	8.2	9.3	39	8	3	4.0	2.5
4....	4.3	15	9.6	8.5	5.7	8.2	9.3	42	[illegible]	3	4.0	2.5
5....	4.3	16	9.6	8.9	5.7	8.2	9.6	47	20	3	4.3	2.5
6....	4.3	14	9.3	8.9	5.7	8.2	12	47	32	3	4.0	2.9
7....	4.8	13	9.3	8.9	5.7	8.2	12	38	39	2	5.7	2.9
8....	4.6	12	9.3	8.9	5.7	8.2	8.9	40	38	2.5	4.6	2.0
9....	4.3	12	9.3	8.9	6.3	8.2	9.3	49	32	2.5	4.0	2.0
10....	4.6	11	9.3	8.5	6.3	8.2	8.9	55	26	2.2	3.7	1.3
11....	4.3	11	9.0	8.5	6.0	8.2	8.5	54	8	2.0	3.7	1.8
12....	4.0	11	8.4	8.2	6.0	7.8	8.5	48	7	1.8	3.4	1.8
13....	4.0	12	8.0	8.2	6.0	7.4	10	42	20	1.3	3.4	1.8
14....	4.3	12	8.2	7.8	5.7	7.4	10	39	53	1.1	3.2	2.5
15....	4.3	13	9.0	7.8	5.7	7.0	10	23	55	1.1	3.2	2.0
16....	4.3	13	9.6	7.4	5.7	7.8	8.9	11	44	1.1	3.2	1.8
17....	4.6	13	9.3	7.0	5.7	7.0	9.6	10	27	.9	2.9	1.8
18....	4.0	13	8.5	8.2	6.0	6.7	12	7.8	7	.7	2.7	1.8
19....	4.0	13	8.9	7.4	6.0	6.7	12	5.1	2	1.0	2.7	1.8
20....	7.8	13	8.5	6.7	6.3	7.8	10	4.8	4	.9	2.7	1.0
21....	18	12	8.5	6.3	6.3	8.2	10	4.3	3	.9	2.7	.5
22....	17	12	8.5	6.0	6.3	8.5	14	4.3	3	.4	2.7	.3
23....	17	12	8.5	6.0	6.3	7.4	18	14	3	.3	2.5	.3
24....	19	11	8.5	5.7	6.3	7.4	14	35	2	.5	2.5	.4
25....	19	11	8.5	6.0	6.3	7.4	12	14	2	.3	2.9	.4
26....	18	11	8.2	6.2	6.3	7.4	14	4.8	2	.3	2.7	.4
27....	17	12	8.2	6.4	6.7	8.2	17	3.4	2	.4	2.5	.4
28....	16	12	8.5	6.4	6.7	7.8	27	3.0	2	.6	2.7	.4
29....	15	13	8.5	6.6	....	7.4	33	3.0	2	.2	2.9	1.0
30....	15	13	8.2	6.7	....	7.4	34	3.0	10	2.0	3.2	1.8
31....	15	....	8.2	6.7	....	6.7	....	15	....	5.1	2.9	....
Total	275.7	381	280.4	233.2	168.8	238.4	387.8	778.5	482	84.1	105.3	48.0
Mean.	8.89	12.7	9.05	7.52	6.03	7.69	12.9	25.1	16.1	2.71	3.40	1.60
Max..	19	16	13	8.9	6.7	8.2	34	55	55	35	5.7	2.9
Min...	4.0	11	8.0	5.7	5.7	6.7	7.8	3.0	2	.2	2.5	.3
Acre-ft.	547	756	556	463	335	473	769	1540	956	167	209	95

Total run-off for water year 1938-39=6,870 acre-feet.

Discharge of Vasquez Creek Near Winter Park, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.6	2.7	5.8	5.0	5.2	5.8	7.8	5.7	0.2	0.2	3.2	2.2
2....	1.6	2.7	5.8	4.9	5.1	5.3	7.8	6.7	.8	.2	3.2	2.2
3....	1.6	2.5	5.6	5.1	5.0	5.1	7.0	7.8	.2	.1	3.2	2.2
4....	2.2	2.3	5.2	5.2	4.9	5.4	7.4	8.2	.1	.2	2.5	2.9
5....	2.2	2.5	5.0	5.2	4.9	5.4	7.4	7.8	.1	.2	2.7	2.7
6....	2.2	2.5	4.8	5.0	5.0	5.7	7.4	7.0	.2	.2	2.5	2.5
7....	2.2	2.5	5.0	4.8	5.0	5.4	6.7	7.0	.2	.1	2.5	2.5
8....	2.2	2.3	5.2	4.8	5.0	5.4	7.8	7.0	.1	.1	2.7	2.5
9....	2.9	2.3	5.6	5.0	5.0	5.7	7.0	5.7	.1	.1	2.7	2.5
10....	2.2	2.5	5.8	5.2	4.9	5.7	6.7	5.7	.1	.1	2.5	2.9
11....	1.3	2.7	5.4	4.8	5.2	5.7	8.2	5.4	.1	.1	2.5	2.5
12....	1.0	2.7	5.2	4.8	5.3	5.7	8.9	5.7	.1	.1	2.2	2.2
13....	2.5	2.5	4.8	4.8	5.2	5.8	8.5	6.0	.1	.1	2.2	2.5
14....	2.7	3.8	4.8	4.5	5.1	5.4	8.5	5.4	.1	.1	2.2	2.5
15....	2.7	7.5	5.0	4.2	5.0	5.2	9.3	4.0	.1	.1	2.0	2.5
16....	2.5	9.0	5.4	4.2	4.8	5.6	8.9	2.2	.1	.1	2.0	2.2
17....	2.5	8.6	5.4	4.1	4.8	5.7	8.5	1.8	.1	.1	2.0	2.5
18....	2.5	8.4	5.0	3.9	5.0	5.7	9.3	2.5	.1	.4	2.0	2.5
19....	2.5	8.0	4.8	3.9	5.4	5.7	11	1.3	.1	2.9	2.0	2.7
20....	2.2	8.0	4.7	4.2	5.4	5.7	16	1.0	.1	1.3	2.5	2.9
21....	2.2	7.8	4.7	4.7	5.4	5.7	15	1.3	.1	.1	2.9	2.5
22....	2.2	7.6	4.6	4.2	5.8	5.7	14	1.3	.1	.1	3.2	2.2
23....	2.2	7.2	4.7	4.3	5.8	5.7	13	1.1	.1	.1	2.7	2.0
24....	2.2	7.0	4.6	4.6	5.8	5.7	14	1.0	.1	.1	3.2	2.0
25....	2.2	6.8	4.7	5.0	5.6	6.0	12	1.0	.1	.2	3.7	2.0
26....	2.2	7.0	4.6	5.2	5.6	6.0	12	1.0	.1	.8	3.2	3.2
27....	2.5	7.0	4.5	5.4	5.8	6.0	7.0	1.1	.1	3.2	3.2	3.4
28....	2.2	6.4	4.4	5.4	5.9	6.3	6.3	1.0	.2	4.0	2.9	2.9
29....	2.2	6.0	4.5	5.3	6.0	6.3	5.1	1.0	.1	4.0	2.7	2.9
30....	2.1	5.6	4.7	5.2	....	6.3	6.0	.9	.1	4.0	2.2	2.9
31....	2.9	....	4.8	5.2	....	6.3	....	.6	....	3.7	2.2	....
Total	68.4	154.4	155.1	148.1	152.9	177.1	274.5	115.2	4.2	27.1	81.4	76.1
Mean.	2.21	5.15	5.00	4.78	5.27	5.71	9.15	3.72	.14	.87	2.63	2.54
Max..	2.9	9.0	5.8	5.4	6.0	6.3	16	8.2	.8	4.0	3.7	3.4
Min...	1.0	2.3	4.4	3.9	4.8	5.1	5.1	.6	.1	.1	2.0	2.0
Acre-ft.	136	306	308	294	303	351	544	228	8.3	54	161	151

Total run-off for water year 1939-40=2,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Correction Table for Vasquez Creek Near Winter Park, Colorado, for Diversions by Moffat Tunnel for Water Year October 1, 1938, to September 30, 1939.

Month	Runoff in Acre-Feet	Diverted by Moffat Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	547	783	1330
November	756	0	756
December	556	0	556
January	463	0	463
February	335	0	335
March	473	0	473
April	769	0	769
May	1540	4170	5710
June	956	6354	7310
July	167	2603	2770
August	209	1231	1440
September	95	756	852
Total run-off for water year 1938-1939	6870	15900	22760

For Water Year October 1, 1939, to September 30, 1940.

October	136	567	703
November	306	175	481
December	308	0	308
January	294	0	294
February	303	0	303
March	351	0	351
April	544	35	579
May	228	2860	3090
June	8.3	5570	5580
July	54	2790	2840
August	161	1170	1330
September	151	986	1140
Total run-off for water year 1939-40	2840	14150	17000

Discharge of St. Louis Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	25	14	16	11	8.8	6.4	8.8	45	186	77	40	20
2....	25	14	15	11	8.8	6.4	9.6	49	158	74	36	19
3....	25	15	14	11	8.8	6.4	10	50	158	73	34	18
4....	25	16	14	11	8.8	6.4	11	51	186	70	32	17
5....	25	17	15	11	8.4	6.6	12	56	202	70	30	18
6....	25	16	15	11	8.0	6.8	14	56	200	69	31	22
7....	28	15	14	11	7.6	6.8	12	50	177	66	39	21
8....	25	15	14	12	7.6	6.8	11	49	156	62	31	22
9....	25	14	14	12	8.0	6.4	11	57	145	61	29	19
10....	25	13	14	12	8.0	6.4	11	64	140	58	28	19
11....	24	13	14	12	8.8	6.8	11	66	138	57	27	20
12....	22	14	13	11	8.4	8.0	11	66	145	55	25	19
13....	22	15	13	11	9.2	7.6	12	63	156	53	25	18
14....	22	16	12	11	8.4	7.6	13	69	169	52	25	19
15....	22	17	12	12	8.4	6.8	12	79	177	53	25	17
16....	21	17	12	11	8.0	6.8	12	84	169	51	24	17
17.. ..	21	17	13	11	8.8	6.8	14	76	158	50	22	17
18....	19	16	13	10	8.4	8.0	16	79	138	48	22	16
19....	20	16	13	10	8.4	8.0	12	97	123	45	22	16
20....	20	15	13	12	8.0	10	10	108	108	44	22	15
21....	21	15	13	10	7.6	8.8	12	114	103	43	22	16
22....	20	14	13	9.6	7.6	8.4	20	130	95	41	21	16
23....	20	14	12	9.6	7.6	8.4	22	133	93	40	21	17
24....	17	13	12	9.6	7.6	8.8	20	128	95	38	21	22
25....	17	13	12	9.6	7.2	8.4	20	114	93	37	22	24
26....	16	14	12	9.6	7.2	7.6	21	97	88	37	21	22
27....	15	14	10	9.6	7.2	8.0	26	90	86	42	21	21
28....	14	15	12	9.2	7.2	8.0	37	97	86	39	23	20
29....	15	16	11	9.2	....	9.2	45	114	84	35	23	22
30....	14	16	11	8.8	....	8.8	45	128	82	46	25	19
31....	14	....	11	9.2	....	7.6	....	163	. . ..	45	22	....
Total	649	449	402	328.0	226.8	233.8	501.4	2622	4094	1631	811	568
Mean.	20.9	15.0	13.0	10.6	8.10	7.54	16.7	84.6	136	52.6	26.2	18.9
Max..	28	17	16	12	9.2	10	45	163	202	77	40	24
Min...	14	13	10	8.8	7.2	6.4	8.8	45	82	35	21	15
Acre-ft.	1290	891	797	651	450	464	995	5200	8120	3240	1610	1130

Total run-off for water year 1938-39=24,840 acre-feet.

Discharge of St. Louis Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	13	7.8	8.0	7.8	8.0	9.5	14	122	71	25	16
2....	17	14	7.8	8.5	8.0	8.0	9.0	20	134	75	24	13
3....	17	13	7.0	9.0	8.0	8.0	8.5	28	141	81	23	19
4....	18	13	6.8	9.0	8.0	6.6	8.0	33	136	79	22	24
5....	19	14	6.4	9.0	8.0	6.8	8.5	35	139	69	22	18
6....	19	14	6.2	8.5	8.0	7.5	8.5	37	118	65	22	17
7....	17	13	6.4	8.0	8.0	8.0	8.5	38	102	62	21	18
8....	18	13	6.8	7.5	8.0	8.5	7.5	37	96	58	20	17
9....	19	14	7.2	6.4	8.0	8.0	7.5	41	89	56	20	18
10....	17	14	7.8	6.4	7.5	8.0	7.5	46	87	53	20	22
11....	17	14	7.2	6.7	7.0	8.0	6.7	52	91	53	20	18
12....	17	14	7.0	7.0	7.5	7.4	6.0	55	96	52	18	16
13....	17	14	7.0	7.0	7.5	7.0	8.5	58	107	50	17	18
14....	17	13	7.0	7.5	7.5	7.0	10	47	118	47	16	18
15....	17	13	7.2	7.5	8.0	7.0	11	50	113	46	16	19
16....	16	12	7.2	7.0	8.0	7.6	10	54	111	47	16	17
17....	16	11	7.0	7.0	7.6	8.5	9.5	55	113	52	16	17
18....	15	11	6.8	6.8	8.0	8.5	12	46	109	56	14	16
19....	14	11	6.6	6.6	6.7	8.5	14	45	109	50	16	19
20....	14	11	6.6	7.5	6.7	8.0	17	46	115	44	19	24
21....	14	10	6.6	7.5	6.7	7.5	17	45	118	42	21	20
22....	14	10	6.6	7.5	7.0	7.5	15	43	107	39	22	19
23....	13	9.5	6.6	7.5	7.0	8.5	15	43	100	38	18	18
24....	14	9.2	6.8	7.5	7.0	8.0	16	45	93	36	23	18
25....	13	9.2	6.8	9.0	7.0	9.0	16	47	89	34	26	19
26....	13	9.2	6.8	9.0	7.0	8.0	19	52	86	32	25	30
27....	12	9.0	6.8	9.0	7.5	8.0	23	62	79	30	24	29
28....	11	8.8	7.8	9.0	7.5	7.5	19	63	78	30	21	26
29....	14	8.4	6.8	8.6	8.5	7.5	15	74	75	30	19	24
30....	11	8.0	6.7	8.2	....	7.5	14	84	72	29	18	24
31....	13	....	7.5	7.8	....	8.5	....	100	....	27	17	....
Total	481	350.3	214.8	241.5	219.0	242.4	356.7	1495	3143	1533	621	591
Mean.	15.5	11.7	6.93	7.79	7.55	7.82	11.9	48.2	105	49.5	20.0	19.7
Max..	19	14	7.8	9.0	8.5	9.0	23	100	141	81	26	30
Min...	11	8.0	6.2	6.4	6.7	6.6	6.0	14	72	27	14	13
Acre-ft.	954	695	426	479	434	481	708	2970	6230	3040	1230	1170

Total run-off for water year 1939-40=18,820 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Above Forks, Near Fraser, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.7	....	....	....	....	....	0.4	5.5	29	12	4.1	1.6
2....	3.1	....	....	....	....	....	0.4	7.1	28	12	4.0	1.6
3....	3.1	....	....	....	....	....	0.4	7.3	28	11	3.7	1.6
4....	2.8	....	....	....	....	....	0.5	6.7	30	11	3.5	1.6
5....	2.8	....	....	....	....	....	0.6	7.7	31	10	3.3	1.6
6....	3.2	....	....	....	....	....	0.5	7.3	30	9.5	3.6	1.7
7....	3.4	....	....	....	....	....	0.5	5.5	29	9.3	3.7	1.8
8....	3.2	....	....	....	....	....	0.5	5.3	27	8.8	3.4	1.8
9....	3.2	....	....	....	....	....	0.5	6.9	26	8.4	3.2	1.6
10....	3.2	....	....	....	....	....	0.4	8.4	26	8.2	3.0	1.6
11....	3.1	....	....	....	....	....	0.4	7.3	25	7.3	2.9	1.6
12....	3.1	....	....	....	....	....	0.5	6.9	25	7.5	2.7	1.6
13....	3.0	....	....	....	....	....	0.5	6.9	26	7.1	2.6	1.6
14....	3.0	....	....	....	....	....	0.5	8.8	26	6.3	2.4	1.6
15....	2.8	....	....	....	....	....	0.5	11	26	6.5	2.3	1.6
16....	2.7	....	....	....	....	....	0.4	12	25	6.1	2.2	1.6
17....	2.8	....	....	....	....	....	0.4	16	24	5.8	1.8	1.6
18....	2.7	....	....	....	....	....	0.5	18	23	5.4	1.8	1.6
19....	2.5	....	....	....	....	....	0.4	19	21	5.0	1.8	1.6
20....	2.3	....	....	....	....	....	0.4	18	20	4.8	1.8	1.6
21....	2.4	....	....	....	....	....	0.6	19	20	4.6	1.7	1.6
22....	2.4	....	....	....	....	....	0.8	22	17	4.6	1.6	1.6
23....	2.4	....	....	....	....	....	0.8	23	16	4.3	1.6	1.6
24....	2.4	....	....	....	....	....	0.7	22	16	4.2	1.7	1.6
25....	2.4	....	....	....	....	....	0.7	22	15	4.2	1.7	1.6
26....	2.2	....	....	....	....	....	0.9	20	14	4.2	1.6	1.6
27....	2.0	....	....	....	....	....	1.6	20	14	4.1	1.6	1.6
28....	2.0	....	....	....	....	....	2.5	21	14	4.0	1.6	1.6
29....	2.0	....	....	....	....	....	3.2	23	14	4.0	1.7	1.6
30....	1.9	....	....	....	....	....	3.7	25	13	4.1	1.7	1.7
31....	2.0	....	....	....	....	....	....	28	....	4.2	1.6	....
Total	82.8	30.0	24.8	18.6	11.2	12.4	24.7	436.6	678	208.5	75.9	48.6
Mean.	2.67	1.0	0.8	0.6	0.4	0.4	0.82	14.1	22.6	6.73	2.45	1.62
Max..	3.4	....	....	....	....	....	3.7	28	31	12	4.1	1.8
Min...	1.9	....	....	....	....	....	0.4	5.3	13	4.0	1.6	1.6
Acre-ft.	164	60	49	37	22	25	49	866	1340	414	151	96

Total run-off for water year 1938-39=3,270 acre-feet.

Discharge of Ranch Creek Above Forks Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.8	1.3	....	....	....	....	....	2.3	28	14	3.4	2.8
2....	1.8	1.3	....	....	....	....	....	2.6	30	14	3.3	2.8
3....	1.8	1.3	....	....	....	....	....	3.4	30	13	3.1	3.0
4....	1.7	....	....	....	....	....	....	4.3	32	12	3.0	3.0
5....	1.7	....	....	....	....	....	....	4.5	33	12	3.0	2.8
6....	1.6	....	....	....	....	....	....	4.9	28	11	3.0	2.6
7....	1.4	....	....	....	....	....	....	5.4	24	10	3.0	2.5
8....	1.6	....	....	....	....	....	....	5.6	21	10	3.0	2.5
9....	1.6	....	....	....	....	....	....	6.1	18	9.6	3.0	2.8
10....	1.6	....	....	....	....	....	....	7.5	18	9.3	3.0	3.1
11....	1.6	....	....	....	....	....	....	9.6	18	8.9	3.0	2.8
12....	1.6	....	....	....	....	....	....	10	19	8.3	3.0	2.6
13....	1.6	....	....	....	....	....	....	9.3	24	8.0	2.8	2.8
14....	1.6	....	....	....	....	....	....	8.0	29	7.5	2.6	2.8
15....	1.6	....	....	....	....	....	....	8.3	29	6.9	2.6	2.6
16....	1.6	....	....	....	....	....	....	10	29	7.2	2.6	2.6
17....	1.6	....	....	....	....	....	....	11	27	9.6	2.6	2.6
18....	1.6	....	....	....	....	....	....	12	25	8.9	2.6	2.6
19....	1.4	....	....	....	....	....	....	8.9	24	8.0	2.6	2.6
20....	1.4	....	....	....	....	....	....	8.6	24	7.2	2.8	2.6
21....	1.3	....	....	....	....	....	Apr. 23	8.0	24	6.4	2.8	2.6
22....	1.3	....	....	....	....	....	to 30	7.7	21	6.1	3.0	2.6
23....	1.3	....	....	....	....	....	2.6	8.3	20	5.8	2.6	2.6
24....	1.3	....	....	....	....	....	2.3	8.3	18	5.4	3.4	2.5
25....	1.2	....	....	....	....	....	2.3	8.6	17	5.1	4.5	2.5
26....	1.2	....	....	....	....	....	2.8	10	16	4.9	3.6	3.3
27....	1.3	....	....	....	....	....	3.3	12	16	5.1	3.6	3.1
28....	1.1	....	....	....	....	....	2.8	13	15	4.7	3.3	3.1
29....	1.4	....	....	....	....	....	2.3	16	14	4.5	3.1	3.1
30....	1.1	....	....	....	....	....	2.3	19	13	4.0	3.0	3.1
31....	1.2	....	....	....	....	....	....	25	....	3.8	2.8	....
Total	45.9	....	....	....	....	....	20.7	278.2	684	251.2	93.7	83.0
Mean.	1.48	....	....	....	....	....	2.59	8.97	22.8	8.10	3.02	2.77
Max..	1.8	....	....	....	....	....	3.3	25	33	14	4.5	3.3
Min...	1.1	....	....	....	....	....	2.3	2.3	13	3.8	2.6	2.5
Acre-ft.	91	....	....	....	....	....	41	552	1360	498	186	165

Total run-off for period=2,893 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.8	6.5	6.7	4.8	3.8	3.6	5.0	31	129	31	9.2	4.6
2....	10	6.3	6.7	4.8	3.8	3.6	5.2	37	113	29	9.0	4.9
3....	10	8.5	6.5	4.8	3.9	3.6	5.5	38	112	27	9.0	4.6
4....	9.8	8.2	6.3	4.6	4.0	3.6	6.1	39	123	26	7.8	4.4
5....	9.5	9.5	6.5	4.6	3.9	3.6	6.9	40	132	25	7.8	4.6
6....	10	7.8	6.5	4.4	3.9	3.6	6.3	39	127	23	8.8	5.2
7....	11	7.5	6.5	4.3	3.8	3.6	5.7	36	108	21	9.8	5.4
8....	11	8.0	6.5	4.3	3.8	3.7	5.7	38	97	20	8.0	5.5
9....	10	8.5	6.5	4.3	3.9	3.6	5.7	43	92	19	7.3	5.0
10....	10	7.8	6.5	4.3	3.9	3.5	5.5	47	89	19	7.1	4.8
11....	9.8	6.9	6.5	4.2	3.9	3.5	5.4	47	86	17	6.7	4.9
12....	9.2	6.9	6.3	4.2	3.9	3.5	5.9	47	86	16	6.3	4.4
13....	9.2	7.8	6.3	4.0	4.0	3.6	6.5	47	85	16	6.3	4.4
14....	9.0	8.2	6.3	4.0	3.9	3.6	6.7	55	84	16	6.1	4.8
15....	8.8	8.5	6.1	4.0	3.8	3.6	6.1	65	85	17	5.9	4.3
16....	8.5	9.0	5.9	4.0	3.8	3.6	5.4	67	84	16	5.5	4.0
17....	8.8	8.8	5.9	4.2	3.8	3.6	5.4	68	80	14	5.4	3.9
18....	8.5	8.2	5.5	4.0	3.8	3.6	5.7	77	75	13	5.2	3.9
19....	8.8	8.0	5.5	4.0	3.8	3.7	5.5	87	66	12	4.9	3.8
20....	9.0	8.0	5.5	4.0	3.8	3.8	5.4	93	59	12	4.9	3.7
21....	8.5	7.8	5.4	4.0	3.9	4.3	6.9	96	59	11	4.9	3.6
22....	8.8	7.3	5.4	4.0	3.9	4.4	10	107	53	11	4.8	3.7
23....	9.0	7.3	5.4	4.0	3.8	5.2	10	121	50	10	4.6	3.9
24....	8.0	7.3	5.4	3.9	3.8	5.4	9.2	118	49	10	4.6	4.6
25....	8.0	7.5	5.2	3.9	3.7	5.2	8.8	103	46	9.8	4.9	4.3
26....	7.3	7.3	5.2	4.0	3.6	6.7	10	88	42	10	4.6	4.4
27....	6.7	7.1	5.2	4.2	3.6	5.7	14	81	39	10	4.6	4.3
28....	6.7	7.1	4.9	4.2	3.6	5.9	21	83	37	9.5	4.8	4.2
29....	6.5	7.1	4.9	4.0	....	6.1	26	96	36	9.2	4.8	4.9
30....	6.3	7.1	4.9	4.0	....	5.0	26	113	34	9.5	4.9	4.2
31....	6.5	....	4.8	3.9	....	4.9	....	132	....	9.8	4.8	....
Total	273.0	231.8	181.7	129.9	107.1	130.9	257.5	2179	2357	498.8	193.3	133.2
Mean.	8.81	7.73	5.86	4.19	3.82	4.22	8.58	70.3	78.6	16.1	6.24	4.44
Max..	11	9.5	6.7	4.8	4.0	6.7	26	132	132	31	9.8	5.5
Min...	6.3	6.3	4.8	3.9	3.6	3.5	5.0	31	34	9.2	4.6	3.6
Acre-ft.	541	460	360	258	212	260	511	4320	4680	989	383	264

Total run-off for water year 1938-39=13,240 acre-feet.

Discharge of Ranch Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.2	5.2	4.4	3.7	2.9	2.8	4.2	11	97	29	10	6.7
2....	4.2	4.9	4.2	3.8	2.9	2.8	4.3	13	106	33	10	6.5
3....	4.2	5.0	4.2	3.9	2.9	2.8	4.0	18	108	29	9.8	6.7
4....	4.8	4.8	4.2	3.8	2.9	2.8	4.2	22	108	26	9.5	7.8
5....	4.9	4.8	3.9	3.7	2.9	2.8	4.3	24	108	25	10	6.7
6....	5.0	4.9	3.8	3.8	2.9	2.8	4.3	28	97	24	9.2	6.5
7....	4.9	5.0	3.8	3.7	2.9	2.8	4.2	32	84	20	9.2	7.1
8....	5.0	4.5	3.9	3.6	2.8	2.8	4.2	34	76	19	9.0	6.9
9....	5.7	4.1	4.0	3.5	2.8	2.8	4.2	38	66	18	8.2	8.0
10....	5.4	4.0	4.0	3.4	2.8	2.9	4.2	47	65	18	8.2	10
11....	5.5	3.9	3.9	3.3	2.8	3.0	4.2	55	64	17	8.0	8.0
12....	5.4	4.1	3.8	3.3	2.8	2.9	4.2	58	66	16	7.5	7.3
13....	5.2	4.1	3.7	3.3	2.8	2.9	4.6	57	75	15	7.3	7.8
14....	5.2	4.1	3.7	3.4	2.8	2.9	6.1	53	84	16	7.1	8.0
15....	5.0	4.0	3.7	3.4	2.8	2.9	6.9	55	81	14	7.1	7.5
16....	4.9	3.9	3.8	3.3	2.8	2.9	6.9	58	79	14	6.7	7.1
17....	4.8	3.8	3.9	3.3	2.8	3.0	5.4	63	74	21	6.7	7.3
18....	4.8	3.7	3.8	3.3	2.8	2.9	6.5	56	67	26	6.3	7.8
19....	4.8	3.7	3.8	3.3	2.8	2.9	8.5	53	65	22	6.7	8.5
20....	4.6	3.8	3.7	3.2	2.8	2.9	11	45	63	19	7.1	8.5
21....	4.4	3.9	3.7	3.2	2.8	3.0	12	39	69	17	8.5	7.8
22....	4.4	3.8	3.7	3.1	2.8	3.0	11	36	59	16	9.5	8.8
23....	4.4	3.8	3.7	3.0	2.8	3.1	11	36	53	16	6.9	8.0
24....	4.4	3.9	3.7	3.0	2.8	3.2	11	36	48	15	8.2	7.3
25....	4.3	3.8	3.7	3.0	2.8	3.5	12	39	44	14	12	7.3
26....	4.4	4.2	3.7	3.0	2.8	3.4	14	44	41	14	10	9.5
27....	4.6	4.2	3.6	3.0	2.8	3.4	18	52	37	14	10	9.8
28....	4.0	4.0	3.6	3.1	2.8	3.4	15	54	34	13	9.0	8.5
29....	5.4	3.9	3.6	3.1	2.8	3.3	12	61	31	12	7.8	9.0
30....	4.0	4.2	3.7	3.0	....	3.4	11	70	29	12	7.3	9.2
31....	4.5	....	3.7	3.0	....	3.8	....	84	....	11	6.7	....
Total	147.3	126.0	118.6	103.5	81.9	93.8	233.4	1371	2078	575	259.5	235.9
Mean.	4.75	4.20	3.83	3.34	2.82	3.03	7.78	44.2	69.3	18.5	8.37	7.86
Max..	5.7	5.2	4.4	3.9	2.9	3.8	18	84	108	33	12	10
Min...	4.0	3.7	3.6	3.0	2.8	2.8	4.0	11	29	11	6.3	6.5
Acre-ft.	292	250	235	205	162	186	463	2720	4120	1140	515	468

Total run-off for water year 1939-40=10,760 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	15	9.0	11	10	9.0	6.5	10	88	258	44	14	6.9
2....	16	8.5	11	10	9.0	6.5	12	111	218	41	11	6.9
3....	17	12	11	10	7.7	6.5	15	118	210	40	11	6.3
4....	16	11	11	10	8.8	6.5	17	115	224	36	9.2	6.0
5....	16	13	12	8.8	9.0	6.5	18	125	234	35	9.6	6.0
6....	18	11	10	8.8	9.0	6.3	17	127	218	32	11	7.7
7....	22	10	10	8.1	9.5	6.3	16	102	194	27	18	8.8
8....	20	11	10	8.5	9.0	6.5	20	99	175	27	13	8.8
9....	18	12	12	10	9.0	6.5	19	115	166	25	11	8.1
10....	19	10	11	10	9.0	6.9	22	128	161	23	9.6	6.9
11....	18	9.6	10	9.6	9.2	7.3	24	122	152	21	8.8	7.3
12....	17	10	9.0	9.6	9.2	7.3	26	127	144	20	8.5	7.7
13....	16	11	8.0	9.2	9.2	8.1	31	123	144	19	8.1	6.5
14....	16	11	7.5	7.8	9.6	8.8	33	141	144	18	7.7	7.3
15....	16	12	8.5	9.2	9.2	6.9	27	168	144	18	7.3	6.5
16....	15	13	9.0	8.5	9.2	6.9	23	170	135	20	6.5	6.3
17....	15	12	9.5	7.7	8.8	6.9	21	168	123	17	5.8	4.9
18....	14	12	9.5	7.2	8.1	7.3	22	179	108	16	5.8	4.9
19....	15	11	9.5	7.8	8.4	8.1	22	198	96	14	4.9	4.9
20....	13	12	9.5	8.0	8.1	8.0	22	208	86	13	5.1	4.7
21....	14	11	9.0	8.8	8.4	8.0	28	210	88	12	5.8	4.4
22....	13	11	8.5	8.5	7.7	9.0	42	226	79	12	4.9	4.4
23....	12	9.5	8.0	8.0	7.3	9.5	46	240	71	10	5.1	5.1
24....	12	9.5	8.5	8.0	7.7	11	38	232	69	11	4.7	6.3
25....	12	9.5	9.0	8.0	7.7	12	34	212	71	10	5.4	6.0
26....	13	10	8.5	8.0	7.3	11	35	190	59	12	6.0	6.0
27....	11	10	7.5	8.0	6.9	10	45	164	54	14	6.5	6.3
28....	11	11	8.0	8.0	6.5	10	62	161	51	14	7.3	6.5
29....	10	12	8.5	8.0	....	9.0	79	177	49	12	7.7	8.1
30....	9.2	12	9.0	9.0	....	8.0	75	212	47	14	8.1	6.9
31....	9.2	....	10	9.0	....	8.0	....	244	....	16	7.3	....
Total	458.4	326.6	293.5	270.1	237.5	246.1	901	5000	3972	643	254.7	193.4
Mean.	14.8	10.9	9.47	8.71	8.48	7.94	30.0	161	132	20.7	8.22	6.45
Max...	22	13	12	10	9.6	12	79	244	258	44	18	8.8
Min...	9.2	8.5	7.5	7.3	6.5	6.3	10	88	47	10	4.7	4.4
Acre-ft.	909	648	582	536	471	488	1790	9920	7880	1280	505	384

Total run-off for water year 1938-39=25,390 acre-feet.

Discharge of Ranch Creek Near Tabernash, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.4	12	12	8.2	5.2	5.2	15	25	204	49	15	15
2....	6.4	14	12	7.7	5.1	5.2	22	27	210	69	15	15
3....	6.0	14	12	7.8	5.0	5.1	30	37	204	59	14	15
4....	7.2	13	11	8.0	4.8	5.0	32	51	196	50	12	18
5....	8.5	15	11	8.0	4.5	5.0	32	62	196	47	12	15
6....	9.0	17	11	7.6	4.3	5.1	29	66	191	49	12	15
7....	9.0	15	11	7.2	4.5	5.2	22	83	160	38	13	15
8....	9.0	15	11	7.4	4.5	5.4	23	83	147	35	13	15
9....	12	17	11	7.4	4.5	5.6	17	100	123	32	13	18
10....	10	16	12	7.0	4.5	5.6	19	118	115	30	14	19
11....	10	16	12	6.7	4.2	5.4	15	132	115	32	16	17
12....	9.5	17	11	6.4	4.3	5.2	14	137	116	30	14	15
13....	10	15	10	6.6	4.0	5.4	17	140	126	26	14	15
14....	10	15	9.4	6.6	3.8	5.6	20	120	142	25	14	17
15....	10	14	10	5.8	4.0	5.6	22	124	146	24	14	17
16....	9.5	14	11	5.9	3.9	5.6	25	131	134	25	16	16
17....	9.5	13	10	6.0	3.8	5.6	26	144	128	34	16	17
18....	10	12	9.4	5.6	3.9	5.8	31	136	116	59	16	17
19....	9.5	12	9.0	4.7	4.2	6.0	44	121	108	42	16	19
20....	7.6	12	9.6	4.9	4.3	6.2	47	116	110	30	18	19
21....	7.6	12	9.6	4.8	4.3	6.6	44	126	132	26	17	17
22....	8.0	11	9.0	4.5	4.3	6.4	34	104	113	25	15	17
23....	9.0	11	8.4	4.8	4.5	6.3	29	96	91	24	8.0	17
24....	9.5	11	8.4	5.1	4.7	6.8	32	99	81	22	14	17
25....	10	11	8.4	5.2	4.8	8.0	32	107	73	21	22	17
26....	12	9.8	8.4	5.2	4.8	10	33	121	69	20	18	20
27....	12	9.8	8.2	5.2	4.9	10	42	144	61	19	19	21
28....	10	11	7.6	5.2	5.0	9.6	42	136	54	20	18	18
29....	13	11	7.6	5.1	5.2	9.2	32	146	48	19	15	18
30....	10	11	7.8	5.2	....	9.6	29	156	47	19	14	20
31....	12	....	8.2	5.2	....	11	....	182	....	16	15	....
Total	292.2	396.6	307.0	191.0	129.8	202.3	851	3370	3756	1016	462	511
Mean.	9.43	13.2	9.90	6.16	4.48	6.53	28.4	109	125	32.8	14.9	17.0
Max..	13	17	12	8.2	5.2	11	47	182	210	69	22	21
Min...	6.0	9.8	7.6	4.5	3.8	5.0	14	25	47	16	8.0	15
Acre-ft.	580	787	609	379	257	401	1690	6680	7450	2020	916	1010

Total run-off for water year 1939-40=22,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.4	....	....	....	....	....	0.6	3.6	30	6.6	2.3	1.2
2....	2.7	....	....	....	....	....	0.6	4.3	28	6.3	2.2	1.2
3....	2.6	....	....	....	....	....	0.7	5.0	28	5.9	1.9	1.0
4....	2.3	....	....	....	....	....	0.8	5.0	30	5.7	1.8	1.0
5....	2.3	....	....	....	....	....	0.9	5.3	31	5.6	1.7	1.1
6....	2.4	....	....	....	....	....	0.8	5.1	30	5.0	1.7	1.3
7....	2.6	....	....	....	....	....	0.7	4.4	27	4.9	2.3	1.6
8....	2.4	....	....	....	....	....	0.7	4.4	22	4.7	1.8	1.6
9....	2.3	....	....	....	....	....	0.7	5.1	21	4.2	1.7	1.3
10....	2.2	....	....	....	....	....	0.7	4.8	20	3.9	1.6	1.1
11....	2.2	....	....	....	....	....	0.7	5.3	19	3.9	1.5	1.2
12....	2.1	....	....	....	....	....	0.7	5.0	19	3.8	1.3	1.2
13....	2.0	....	....	....	....	....	0.8	5.3	20	3.6	1.3	1.3
14....	2.0	....	....	....	....	....	0.8	6.4	20	3.3	1.3	1.5
15....	2.0	....	....	....	....	....	0.8	7.4	22	3.6	1.3	1.2
16....	2.0	....	....	....	....	....	0.7	7.6	20	3.3	1.3	1.1
17....	1.9	....	....	....	....	....	0.7	8.4	19	3.1	1.2	1.0
18....	1.8	....	....	....	....	....	0.7	9.7	16	2.8	1.2	1.0
19....	1.7	....	....	....	....	....	0.7	12	14	2.7	1.2	1.0
20....	1.6	....	....	....	....	....	0.7	14	13	2.4	1.2	0.9
21....	1.4	....	....	....	....	....	0.8	14	12	2.3	1.1	0.9
22....	1.2	....	....	....	....	....	1.3	17	11	2.3	1.1	0.9
23....	1.1	....	....	....	....	....	1.3	19	10	2.2	1.0	0.9
24....	1.0	....	....	....	....	....	1.2	20	10	2.2	1.1	1.0
25....	1.0	....	....	....	....	....	1.1	17	9.5	2.2	1.2	0.9
26....	0.9	....	....	....	....	....	1.3	16	8.8	2.4	1.2	0.9
27....	0.9	....	....	....	....	....	1.6	16	8.0	2.3	1.2	0.9
28....	0.9	....	....	....	....	....	2.3	16	7.8	2.3	1.3	1.0
29....	0.9	....	....	....	....	....	2.7	20	7.5	2.2	1.3	1.2
30....	0.9	....	....	....	....	....	2.7	24	7.0	2.2	1.5	0.9
31....	0.9	....	....	....	....	....	....	28	....	2.3	1.3	....
Total	54.6	24.0	21.7	15.5	14.0	15.5	30.8	335.1	540.6	110.2	45.1	33.3
Mean.	1.76	0.8	0.7	0.5	0.5	0.5	1.03	10.8	18.0	3.55	1.45	1.11
Max..	2.7	....	....	....	....	....	2.7	28	31	6.6	2.3	1.6
Min...	0.9	....	....	....	....	....	0.6	3.6	7.0	2.2	1.0	0.9
Acre-ft.	108	48	43	31	28	31	61	665	1070	219	89	66

Total run-off for water year 1938-39=2,460 acre-feet.

Discharge of North Fork Ranch Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.9	0.6	....	....	....	....	....	1.1	26	8.5	2.7	2.1
2....	.8	.6	....	....	....	....	....	1.6	25	9.5	2.7	2.1
3....	.8	.6	....	....	....	....	....	2.6	22	8.2	2.4	2.1
4....	.9	....	....	....	....	....	....	3.6	22	7.2	2.3	2.6
5....	.9	....	....	....	....	....	....	4.1	23	6.8	2.3	2.1
6....	1.0	....	....	....	....	....	....	4.6	20	6.5	2.3	1.9
7....	1.0	....	....	....	....	....	....	5.4	18	5.7	2.4	1.8
8....	1.0	....	....	....	....	....	....	5.6	16	5.4	2.4	1.8
9....	1.1	....	....	....	....	....	....	6.6	15	5.0	2.2	2.2
10....	.9	....	....	....	....	....	....	8.2	15	4.6	2.2	2.6
11....	.9	....	....	....	....	....	....	9.2	14	4.6	2.2	2.1
12....	.9	....	....	....	....	....	....	9.8	15	3.9	1.8	1.8
13....	.9	....	....	....	....	....	....	9.5	17	3.9	1.7	2.1
14....	.9	....	....	....	....	....	....	9.5	20	3.6	1.7	2.1
15....	.8	....	....	....	....	....	....	9.8	20	3.5	1.6	2.1
16....	.8	....	....	....	....	....	....	11	19	3.9	1.7	1.8
17....	.8	....	....	....	....	....	....	13	18	6.3	1.7	1.9
18....	.7	....	....	....	....	....	....	11	17	6.6	1.6	2.1
19....	.7	....	....	....	....	....	....	11	16	5.4	1.8	2.2
20....	.7	....	....	....	....	....	....	11	16	4.7	2,2	2.2
21....	.6	....	....	....	....	....	Apr. 23	11	18	4.1	2.3	2.1
22....	.6	....	....	....	....	....	to 30	9.5	16	4.1	2.4	2.2
23....	.6	....	....	....	....	....	1.3	9.5	14	3.8	2.4	2.1
24....	.6	....	....	....	....	....	1.1	9.5	13	3.6	2.8	1.9
25....	.6	....	....	....	....	....	1.1	10	12	3.5	3.6	2.1
26....	.6	....	....	....	....	....	1.3	12	11	3.3	3.1	2.6
27....	.5	....	....	....	....	....	2.1	13	10	3.5	3.3	2.6
28....	.4	....	....	....	....	....	1.9	13	9.5	3.5	2.8	2.2
29....	.6	....	....	....	....	....	1.3	15	8.8	3.2	2.4	2.4
30....	.4	....	....	....	....	....	1.1	18	8.2	3.0	2.2	2.4
31....	.5	....	....	....	....	....	....	20	....	2.8	2.2	....
Total	23.4	....	....	....	....	....	11.2	288.7	494.5	152.2	71.4	64.3
Mean.	0.75	....	....	....	....	....	1.40	9.31	16.5	4.91	2.30	2.14
Max..	1.1	....	....	....	....	....	2.1	20	26	9.5	3.6	2.6
Min...	0.4	....	....	....	....	....	1.1	1.1	8.2	2.8	1.6	1.8
Acre-ft.	46	....	....	....	....	....	22	573	981	302	142	128

Total run off for period=2,194 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.3	....	....	....	....	....	0.8	5.6	42	8.9	3.0	1.2
2....	2.4	....	....	....	....	....	0.8	6.8	40	8.6	2.9	1.1
3....	2.3	....	....	....	....	....	0.9	6.8	43	7.7	2.6	1.0
4....	2.3	....	....	....	....	....	1.0	7.1	48	7.4	2.6	0.9
5....	2.3	....	....	....	....	....	1.2	8.3	49	7.1	2.5	1.0
6....	2.4	....	....	....	....	....	1.0	8.0	42	6.8	2.8	1.1
7....	2.5	....	....	....	....	....	1.0	6.6	36	6.1	3.1	1.2
8....	2.3	....	....	....	....	....	1.0	6.6	33	5.8	2.6	1.2
9....	2.2	....	....	....	....	....	1.0	8.3	32	5.1	2.3	1.0
10....	2.2	....	....	....	....	....	0.9	9.2	32	4.9	2.2	0.9
11....	2.0	....	....	....	....	....	0.9	8.6	30	4.4	2.2	1.1
12....	1.9	....	....	....	....	....	1.0	6.3	30	4.1	1.9	1.1
13....	1.8	....	....	....	....	....	1.1	6.8	30	4.0	1.9	1.1
14....	1.8	....	....	....	....	....	1.1	8.6	29	4.0	1.8	1.2
15....	1.8	....	....	....	....	....	1.0	9.5	30	4.0	1.7	1.1
16....	1.7	....	....	....	....	....	0.9	11	28	3.7	1.5	1.0
17....	1.7	....	....	....	....	....	0.9	11	24	3.6	1.4	0.9
18....	1.5	....	....	....	....	....	1.0	6.3	21	3.4	1.4	0.9
19....	1.5	....	....	....	....	....	0.9	21	19	3.3	1.3	0.8
20....	2.0	....	....	....	....	....	0.9	25	18	3.1	1.3	0.7
21....	1.9	....	....	....	....	....	1.2	26	18	3.0	1.3	0.7
22....	1.9	....	....	....	....	....	1.6	30	16	3.0	1.2	0.7
23....	2.4	....	....	....	....	....	1.6	36	15	2.9	1.1	0.9
24....	2.4	....	....	....	....	....	1.5	36	14	2.8	1.2	1.0
25....	2.4	....	....	....	....	....	1.5	30	13	2.8	1.3	0.9
26....	2.2	....	....	....	....	....	1.6	24	13	3.0	1.2	0.9
27....	2.0	....	....	....	....	....	2.3	22	11	3.0	1.2	0.8
28....	2.0	....	....	....	....	....	3.7	24	11	2.9	1.2	1.1
29....	2.0	....	....	....	....	....	4.1	30	11	2.8	1.3	1.3
30....	1.9	....	....	....	....	....	4.3	38	9.8	2.9	1.3	1.0
31....	2.0	....	....	....	....	....	....	46	....	2.9	1.2	....
Total	64.0	45.0	31.0	21.7	16.8	21.7	42.7	529.4	787.8	138.0	56.5	29.8
Mean.	2.06	1.5	1.0	0.7	0.6	0.7	1.42	17.1	26.3	4.45	1.82	.99
Max..	2.5	....	....	....	....	....	4.3	46	49	8.9	3.1	1.3
Min...	1.5	....	....	....	....	....	0.8	5.6	9.8	2.8	1.1	0.7
Acre-ft.	127	89	61	43	33	43	85	1050	1560	274	112	59

Total run-off for water year 1938-39=3,540 acre-feet.

Discharge of Middle Fork Ranch Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.0	....	....	....	....	....	....	2.5	44	10	3.4	2.3
2....	.9	....	....	....	....	....	....	3.5	54	10	3.2	2.3
3....	.8	....	....	....	....	....	....	4.0	77	9.6	3.0	2.3
4....	1.1	....	....	....	....	....	....	4.7	42	8.6	2.9	2.5
5....	1.2	....	....	....	....	....	....	5.8	56	8.2	2.9	2.3
6....	1.2	....	....	....	....	....	....	6.6	51	7.8	2.9	2.2
7....	1.2	....	....	....	....	....	....	7.2	30	7.0	2.9	2.2
8....	1.3	....	....	....	....	....	....	8.2	24	6.5	2.9	2.0
9....	1.4	....	....	....	....	....	....	9.5	20	6.2	2.8	2.3
10....	1.3	....	....	....	....	....	....	11	20	5.8	2.8	2.6
11....	1.3	....	....	....	....	....	....	13	20	5.5	2.6	2.2
12....	1.3	....	....	....	....	....	....	14	20	5.2	2.5	2.0
13....	1.3	....	....	....	....	....	....	14	24	5.0	2.4	2.2
14....	1.3	....	....	....	....	....	....	14	29	4.8	2.3	2.2
15....	1.3	....	....	....	....	....	....	13	28	4.6	2.3	2.2
16....	1.3	....	....	....	....	....	....	14	27	4.6	2.3	2.0
17....	1.2	....	....	....	....	....	....	15	23	6.0	2.2	2.0
18....	1.2	....	....	....	....	....	....	14	22	7.0	2.2	2.0
19....	1.1	....	....	....	....	....	....	12	22	6.2	2.3	2.0
20....	1.2	....	....	....	....	....	....	11	20	5.5	2.4	2.0
21....	1.2	....	....	....	....	....	Apr. 23	10	21	4.8	2.8	2.0
22....	1.2	....	....	....	....	....	to 30	9.6	19	4.6	2.8	2.0
23....	1.0	....	....	....	....	....	2.2	10	17	4.6	2.4	2.0
24....	1.0	....	....	....	....	....	2.2	10	16	4.4	2.8	2.0
25....	1.0	....	....	....	....	....	1.8	11	15	4.2	3.6	2.0
26....	1.0	....	....	....	....	....	2.3	12	14	4.2	3.2	2.5
27....	1.0	....	....	....	....	....	2.8	14	13	4.4	3.0	2.3
28....	.9	....	....	....	....	....	2.4	14	12	4.2	2.8	2.0
29....	1.0	....	....	....	....	....	2.3	13	11	4.0	2.5	2.0
30....	.9	....	....	....	....	....	2.3	19	10	3.8	2.3	2.0
31....	1.0	....	....	....	....	....	....	34	....	3.4	2.3	....
Total	35.1	....	....	....	....	....	18.3	353.6	801	180.7	83.7	64.6
Mean.	1.13	....	....	....	....	....	2.29	11.4	26.7	5.83	2.70	2.15
Max..	1.4	....	....	....	....	....	2.8	34	77	10	3.6	2.6
Min...	.8	....	....	....	....	....	1.8	2.5	10	3.4	2.2	2.0
Acre-ft.	70	....	....	....	....	....	36	701	1590	358	166	128

Total run-off for period=3,049 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Fork of Ranch Creek Near West Portal, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.3	....	....	....	....	....	0.5	3.8	29	4.6	1.9	0.7
2....	1.4	....	....	....	....	....	0.6	4.6	27	4.4	1.8	0.7
3....	1.4	....	....	....	....	....	0.6	4.9	27	4.1	1.7	0.7
4....	1.3	....	....	....	....	....	0.7	5.6	27	3.9	1.6	0.7
5....	1.3	....	....	....	....	....	0.8	6.6	26	3.6	1.6	0.7
6....	1.5	....	....	....	....	....	0.7	6.4	24	3.5	1.7	0.8
7....	1.5	....	....	....	....	....	0.6	5.8	23	3.2	2.0	0.8
8....	1.5	....	....	....	....	....	0.6	6.2	21	3.1	1.4	0.7
9....	1.4	....	....	....	....	....	0.6	7.7	20	3.0	1.2	0.7
10....	1.4	....	....	....	....	....	0.6	8.8	19	2.9	1.1	0.7
11....	1.3	....	....	....	....	....	0.6	9.7	18	2.7	1.0	0.7
12....	1.3	....	....	....	....	....	0.6	9.4	17	2.6	1.0	0.7
13....	1.3	....	....	....	....	....	0.7	9.9	16	2.5	1.0	0.7
14....	1.3	....	....	....	....	....	0.7	13	14	2.4	0.9	0.7
15....	1.2	....	....	....	....	....	0.7	14	14	2.4	0.9	0.7
16....	1.2	....	....	....	....	....	0.6	15	13	2.3	0.9	0.7
17....	1.2	....	....	....	....	....	0.6	17	12	2.2	0.9	0.6
18....	1.2	....	....	....	....	....	0.6	19	11	2.1	0.9	0.6
19....	1.2	....	....	....	....	....	0.6	23	10	2.1	0.9	0.6
20....	1.2	....	....	....	....	....	0.6	31	9.7	2.0	0.9	0.6
21....	1.1	....	....	....	....	....	0.7	32	9.9	2.0	0.8	0.6
22....	1.1	....	....	....	....	....	1.1	39	8.8	2.0	0.8	0.6
23....	1.0	....	....	....	....	....	1.1	43	7.7	1.9	0.8	0.6
24....	1.0	....	....	....	....	....	1.0	35	7.5	1.9	0.8	0.7
25....	1.0	....	....	....	....	....	1.0	30	6.9	2.0	0.8	0.7
26....	0.9	....	....	....	....	....	1.0	26	6.6	2.1	0.7	0.7
27....	0.8	....	....	....	....	....	1.5	23	6.2	2.0	0.7	0.7
28....	0.8	....	....	....	....	....	2.3	22	5.8	1.9	0.7	0.7
29....	0.8	....	....	....	....	....	2.6	23	5.4	1.9	0.8	0.8
30....	0.8	....	....	....	....	....	3.0	25	5.1	2.0	0.8	0.7
31....	0.8	....	....	....	....	....	....	31	....	1.9	0.8	....
Total	36.5	21.0	18.6	16.5	11.2	16.5	27.9	550.4	447.6	81.2	33.8	20.6
Mean.	118	0.7	0.6	0.5	0.4	0.5	.93	17.8	14.9	2.62	1.09	.69
Max..	1.5	....	....	....	....	....	3.0	43	29	4.6	2.0	0.8
Min...	0.8	....	....	....	....	....	0.5	3.8	5.1	1.9	0.7	0.6
Acre-ft.	72	42	37	33	22	33	55	1090	888	161	67	41

Total run-off for water year 1938-39=2,540 acre-feet.

Discharge of South Fork Ranch Creek Near Winter Park, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.7	1.0	....	....	....	....	....	1.5	16	5.3	1.5	1.2
2....	.7	1.0	....	....	....	....	....	1.7	16	5.4	1.4	1.2
3....	.7	.9	....	....	....	....	....	2.1	15	5.1	1.3	1.2
4....	.9	....	....	....	....	....	....	2.9	14	4.9	1.3	1.2
5....	.9	....	....	....	....	....	....	3.5	14	4.8	1.2	1.2
6....	.9	....	....	....	....	....	....	4.6	13	4.4	1.3	1.1
7....	.9	....	....	....	....	....	....	5.4	13	4.1	1.3	1.1
8....	.9	....	....	....	....	....	....	6.0	13	4.1	1.2	1.1
9....	1.0	....	....	....	....	....	....	7.3	11	3.6	1.2	1.5
10....	.9	....	....	....	....	....	....	9.1	10	3.4	1.2	1.5
11....	1.0	....	....	....	....	....	....	12	9.9	3.4	1.2	1.2
12....	1.0	....	....	....	....	....	....	13	9.1	3.1	1.1	1.2
13....	1.0	....	....	....	....	....	....	12	9.4	2.9	1.1	1.3
14....	1.0	....	....	....	....	....	....	13	9.4	2.7	1.1	1.2
15....	1.0	....	....	....	....	....	....	14	9.1	3.0	1.1	1.1
16....	1.0	....	....	....	....	....	....	14	9.1	2.9	1.1	1.1
17....	1.1	....	....	....	....	....	....	14	8.5	3.1	1.1	1.1
18....	1.0	....	....	....	....	....	....	14	8.3	3.9	1.1	1.2
19....	1.0	....	....	....	....	....	....	14	8.3	3.1	1.1	1.1
20....	1.0	....	....	....	....	....	....	13	8.3	2.6	1.2	1.1
21....	1.0	....	....	....	....	....	Apr. 23	12	9.7	2.3	1.3	1.2
22....	1.0	....	....	....	....	....	to 30	12	8.0	2.2	1.3	1.1
23....	1.0	....	....	....	....	....	1.4	12	7.3	2.1	1.2	1.0
24....	1.0	....	....	....	....	....	1.6	13	6.6	2.0	1.4	1.0
25....	.9	....	....	....	....	....	1.6	13	6.2	1.8	1.5	1.1
26....	.9	....	....	....	....	....	2.1	13	5.8	1.8	1.4	1.3
27....	.9	....	....	....	....	....	2.3	14	5.4	2.0	1.5	1.3
28....	1.1	....	....	....	....	....	2.2	14	5.3	2.1	1.4	1.2
29....	1.0	....	....	....	....	....	1.7	14	5.1	1.8	1.2	1.2
30....	1.1	....	....	....	....	....	1.6	14	5.1	1.7	1.2	1.2
31....	1.0	....	....	....	....	....	....	15	....	1.5	1.2	....
Total	29.5	....	....	....	....	....	14.5	323.1	288.9	97.1	38.7	35.5
Mean.	.95	....	....	....	....	....	1.81	10.4	9.63	3.13	1.25	1.18
Max..	1.1	....	....	....	....	....	2.3	15	16	5.4	1.5	1.5
Min...	.7	....	....	....	....	....	1.4	1.5	5.1	1.5	1.1	1.0
Acre-ft.	59	....	....	....	....	....	29	641	573	193	77	70

Total run-off for period=1,642 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Meadow Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.4	....	....	....	....	....	1.0	57	114	11	4.0	2.6
2....	1.4	....	....	....	....	....	1.0	48	81	10	3.2	2.8
3....	1.3	....	....	....	....	....	1.1	50	79	9.6	2.9	2.7
4....	1.2	....	....	....	....	....	1.2	52	93	9.0	2.6	2.6
5....	1.4	....	....	....	....	....	1.3	52	96	8.8	2.6	1.8
6....	1.7	....	....	....	....	....	1.3	46	80	8.1	3.1	2.0
7....	2.5	....	....	....	....	....	1.4	41	62	7.7	6.4	2.2
8....	2.3	....	....	....	....	....	1.6	24	52	7.5	3.3	2.2
9....	2.6	....	....	....	....	....	1.8	42	50	7.2	2.8	1.9
10....	2.3	....	....	....	....	....	2.1	49	48	6.8	2.7	1.7
11....	1.9	....	....	....	....	....	2.1	43	43	6.4	2.6	1.6
12....	1.6	....	....	....	....	....	2.0	35	48	5.8	2.6	1.6
13....	1.6	....	....	....	....	....	1.9	37	44	5.0	2.5	1.6
14....	1.5	....	....	....	....	....	1.8	54	46	4.4	2.1	1.6
15....	1.5	....	....	....	....	....	1.8	71	48	4.4	2.0	1.5
16....	1.5	*1.0	....	....	....	....	2.2	68	39	4.5	2.0	1.4
17....	1.4	....	....	....	....	....	2.1	65	32	3.9	1.8	1.9
18....	1.2	....	....	....	....	....	2.1	72	25	3.4	1.8	1.9
19....	1.2	....	....	....	....	....	2.1	91	19	3.3	1.9	1.8
20....	1.2	....	....	....	....	....	2.1	100	16	3.1	2.1	.7
21....	1.1	....	....	....	....	....	2.1	103	19	3.1	2.1	.8
22....	1.1	....	....	....	....	....	2.2	114	15	2.9	2.2	1.7
23....	1.1	....	....	....	....	....	2.6	116	14	2.8	2.0	2.5
24....	1.1	....	....	....	....	....	3.1	94	18	2.7	2.2	2.6
25....	1.1	....	....	....	....	....	4.4	66	17	2.6	2.3	1.4
26....	1.1	....	....	....	....	....	5.8	50	14	3.6	2.3	.6
27....	1.1	....	....	....	....	....	7.7	46	13	4.4	2.6	.7
28....	1.1	....	....	....	....	....	15	58	13	3.3	2.6	.9
29....	1.1	....	....	....	....	....	35	83	12	3.1	2.6	1.1
30....	1.1	....	....	....	....	....	49	104	11	3.8	2.8	1.0
31....	1.1	....	....	....	....	....	....	118	....	4.5	2.8	....
Total	44.8	30.0	27.9	27.9	22.4	40.3	160.9	2049	1261	166.7	81.5	51.4
Mean.	1.45	1.0	.9	.9	.8	1.3	5.36	66.1	42.0	5.38	2.63	1.71
Max..	2.6	....	....	....	....	....	49	118	114	11	6.4	2.8
Min...	1.1	....	....	....	....	....	1.0	24	11	2.6	1.8	.6
Acre-ft.	89	60	55	55	44	80	319	4060	2500	331	162	102

Total run-off for water year 1938-39=7,860 acre-feet.

*Discharge measurement.

Discharge of Meadow Creek Near Tabernash, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.7	0.8	0.7	....	....	....	0.6	4.8	96	15	1.5	1.5
2....	.5	.9	1.0	....	....	....	.7	4.6	91	16	1.5	1.6
3....	.7	.8	1.0	....	....	....	.7	5.2	74	12	1.4	1.6
4....	1.0	.7	.8	....	....	....	.7	6.2	65	9.0	1.5	1.8
5....	1.2	.8	.8	....	....	....	.7	10	68	8.8	1.5	1.7
6....	1.1	1.0	.7	....	....	....	.7	15	55	8.3	1.5	1.7
7....	1.3	.9	.7	....	....	....	.7	21	47	7.5	1.6	1.7
8....	1.3	.8	.8	....	....	....	.7	25	42	6.6	1.5	1.6
9....	1.6	.8	.9	....	....	....	.7	30	32	6.6	1.3	1.8
10....	1.3	.8	.9	....	....	....	.7	36	29	6.2	1.4	1.9
11....	1.3	.8	.8	....	....	....	.7	44	32	6.6	1.5	1.8
12....	1.3	.9	.7	....	....	....	.8	56	35	6.6	1.3	1.7
13....	1.2	.9	.7	....	....	....	.8	62	38	5.4	1.3	1.8
14....	1.1	.9	.7	....	....	....	.8	62	47	5.4	1.2	1.9
15....	1.1	.9	.7	....	....	....	.9	60	48	5.0	1.2	1.9
16....	1.1	.9	.7	....	....	....	1.0	58	40	5.6	1.1	1.9
17....	1.0	.8	.7	....	....	....	1.1	58	35	7.5	1.1	1.7
18....	1.0	.8	.7	....	....	....	1.3	58	31	10	1.1	1.6
19....	1.0	.7	.7	....	....	....	1.6	61	28	7.9	1.2	1.4
20....	1.0	.8	.7	....	....	....	2.0	58	30	6.0	1.2	1.4
21....	.9	.8	.6	....	....	....	2.6	44	31	5.2	1.5	1.4
22....	1.0	.8	.6	....	....	0.5	2.9	46	23	5.0	1.6	1.4
23....	1.0	.9	.6	....	....	....	3.5	40	19	4.6	1.5	1.5
24....	.9	.8	.6	....	....	....	3.9	46	17	4.4	1.4	1.8
25....	.8	.8	.6	....	....	....	5.0	55	15	4.0	1.3	2.0
26....	.8	.7	.6	....	....	....	6.0	65	15	4.4	1.3	3.2
27....	.8	.9	.6	....	....	....	6.4	81	15	3.9	1.6	3.0
28....	.7	.8	.6	....	....	....	6.8	76	16	3.3	1.4	2.2
29....	.8	.7	.6	....	....	....	6.0	81	15	3.4	1.3	2.4
30....	.8	.7	.6	....	....	....	5.0	86	15	2.6	1.3	2.6
31....	.8	....	.6	....	....	....	....	92	....	2.1	1.3	....
Total	31.1	24.6	22.0	15.5	11.6	15.5	66.0	1446.8	1144	204.9	42.4	55.5
Mean.	1.00	.82	.71	0.5	0.4	0.5	2.20	46.7	38.1	6.61	1.37	1.85
Max..	1.6	1.0	1.0	....	....	....	6.8	92	96	16	1.6	3.2
Min...	.5	.7	.6	....	....	....	.6	4.6	15	2.1	1.1	1.4
Acre-ft.	62	49	44	31	23	31	131	2870	2270	406	84	110

Total run-off for water year 1939-40=6,110 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Strawberry Creek Near Granby, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.0	.6	....	....	....	....	....	54	24	9.4	5.4	0
2....	1.0	.6	....	....	....	....	....	58	18	9.1	3.6	0
3....	1.1	.6	....	....	....	....	....	58	12	8.2	2.1	0
4....	1.1	.8	....	....	....	....	....	57	12	7.6	2.0	0
5....	1.1	.9	....	....	....	....	....	58	13	6.7	2.0	0
6....	1.4	1.0	....	....	....	....	....	54	12	6.2	2.3	0
7....	2.2	1.0	....	....	....	....	....	48	14	4.8	6.7	.4
8....	2.4	1.0	....	....	....	....	....	46	20	5.6	4.3	.6
9....	2.0	1.5	....	....	....	....	....	47	18	5.4	2.8	.5
10....	2.0	1.7	....	....	....	....	....	46	18	4.8	1.5	0
11....	2.0	1.6	....	....	....	....	....	45	16	4.6	.4	0
12....	1.5	1.4	....	....	....	....	....	40	14	3.4	.4	0
13....	1.4	1.2	....	....	....	....	....	39	14	3.9	.7	0
14....	1.3	1.2	....	....	....	....	....	38	13	3.6	.6	.1
15....	1.2	1.3	....	....	....	....	....	39	13	2.0	.4	.1
16....	1.2	1.5	....	....	....	....	....	42	14	4.1	.3	0
17....	1.2	1.7	....	....	....	....	....	43	13	3.6	.2	.5
18....	.8	1.7	....	....	....	....	....	44	12	3.0	.4	1.1
19....	.7	1.6	....	....	....	....	Apr. 21	43	12	2.8	.2	0
20....	.7	1.6	....	....	....	....	to 30	41	10	2.1	0	.7
21....	.7	1.6	....	....	....	....	14	41	12	1.8	0	0
22....	.7	1.4	....	....	....	....	22	41	5.6	1.5	0	0
23....	.6	1.2	....	....	....	....	26	37	3.4	2.3	0	.2
24....	.6	1.2	....	....	....	....	21	33	12	2.1	0	1.3
25....	.5	1.3	....	....	....	....	18	32	14	2.1	0	1.3
26....	.5	1.4	....	....	....	....	20	32	13	2.3	0	1.4
27....	.5	1.4	....	....	....	....	29	27	12	4.8	.2	1.3
28....	.5	1.5	....	....	....	....	41	23	9.7	3.0	0	1.3
29....	.6	1.5	....	....	....	....	47	18	10	2.3	0	2.1
30....	.6	1.4	....	....	....	....	49	18	10	3.0	0	1.7
31....	.6	....	....	....	....	....	....	21	....	5.1	0	....
Total	33.7	38.4	....	....	....	....	287	1263	393.7	131.2	36.5	14.6
Mean.	1.09	1.28	....	....	....	....	28.7	40.7	13.1	4.23	1.18	.49
Max..	2.4	1.7	....	....	....	....	49	58	24	9.4	6.7	2.1
Min...	.5	.6	....	....	....	....	14	18	3.4	1.5	0	0
Acre-ft.	67	76	....	....	....	....	569	2510	781	260	72	29

Total run-off for period=4,364 acre-feet.

Discharge of Strawberry Creek Near Granby, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.4	1.4	....	....	....	....	2.1	14	16	9.2	2.4	0.3
2....	1.3	1.0	....	....	....	....	2.1	21	16	11	2.4	.3
3....	1.3	1.0	....	....	....	....	2.0	21	14	6.1	2.2	.1
4....	1.8	.7	....	....	....	....	2.1	21	11	3.8	2.0	.1
5....	2.8	0	....	....	....	....	2.3	25	14	3.8	1.8	.1
6....	3.0	.1	....	....	....	....	2.5	29	22	4.0	1.4	.1
7....	2.8	.1	....	....	....	....	2.5	31	21	6.7	1.0	0
8....	2.5	.1	....	....	....	....	2.4	33	19	7.3	1.2	.2
9....	4.1	.3	....	....	....	....	2.4	38	14	6.7	1.2	.1
10....	3.2	.7	....	....	....	....	2.4	36	13	5.8	.9	.8
11....	3.2	.5	....	....	....	....	2.3	38	10	5.2	1.2	.9
12....	3.0	.6	....	....	....	....	2.3	37	10	6.4	.8	.6
13....	3.0	.7	....	....	....	....	3.0	42	8.5	4.5	.6	.1
14....	2.5	.6	....	....	....	....	5.4	40	3.2	4.5	.5	.1
15....	2.3	.7	....	....	....	....	7.4	39	12	4.2	.4	.1
16....	2.0	.6	....	....	....	....	7.6	38	12	4.5	.1	.1
17....	2.0	.8	....	....	....	....	6.8	37	11	6.7	.4	.1
18....	1.8	....	....	....	....	....	8.0	30	9.9	15	.3	.1
19....	1.8	....	....	....	....	....	11	26	11	12	.1	.4
20....	1.7	....	....	....	....	....	15	25	11	5.8	.2	.9
21....	1.1	....	....	....	....	Mar. 23	16	28	7.3	5.5	.5	.9
22....	.7	....	....	....	....	to 31	16	22	2.2	4.5	1.6	1.2
23....	.6	....	....	....	....	1.5	16	17	14	4.0	1.6	1.0
24....	.6	....	....	....	....	1.5	14	15	12	3.0	1.8	1.4
25....	.6	....	....	....	....	1.6	16	16	12	2.2	5.2	1.4
26....	.6	....	....	....	....	1.6	19	22	12	2.0	5.0	2.2
27....	.6	....	....	....	....	1.6	25	31	11	2.0	6.1	1.6
28....	.5	....	....	....	....	1.6	19	16	10	2.4	3.8	1.0
29....	.7	....	....	....	....	1.5	15	15	9.6	2.2	2.0	.8
30....	1.0	Nov. 1	....	....	....	1.6	13	12	8.2	2.2	.7	.3
31....	1.4	to 17	....	....	....	1.8	....	14	....	2.2	.6	....
Total	55.9	9.9	....	....	....	14.3	260.6	829	356.9	165.4	50.0	17.3
Mean.	1.80	.58	....	....	....	1.59	8.69	26.7	11.9	5.34	1.61	.58
Max..	4.1	1.4	....	....	....	1.8	25	42	22	15	6.1	2.2
Min...	.5	0	....	....	....	1.5	2.0	12	3.2	2.0	.1	0
Acre-ft.	111	20	....	....	....	28	517	1640	708	328	99	34

Total run-off for period=3,485 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Fork River Below Steelman Creek, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	12	7.3	....	....	....	....	4.0	36	164	69	23	7.9
2....	12	6.8	....	....	....	....	4.0	47	140	66	21	7.9
3....	12	6.6	....	....	....	....	4.2	53	150	63	20	7.0
4....	12	6.4	....	....	....	....	4.6	54	186	60	19	7.0
5....	12	6.2	....	....	....	....	4.8	59	203	61	18	7.3
6....	14	6.0	....	....	....	....	4.8	57	182	60	20	8.2
7....	16	6.0	....	....	....	....	4.6	40	158	57	24	9.1
8....	16	6.0	....	....	....	....	4.8	38	140	54	18	9.4
9....	14	6.0	....	....	....	....	5.2	49	131	51	16	7.9
10....	14	6.0	....	....	....	....	4.8	59	128	49	15	7.3
11....	14	5.8	....	....	....	....	4.6	57	122	47	14	8.2
12....	14	5.6	....	....	....	....	4.8	57	134	45	13	7.6
13....	14	5.8	....	....	....	....	5.0	50	161	44	13	7.9
14....	14	5.8	....	....	....	....	5.0	65	175	42	12	8.2
15....	14	5.8	....	....	....	....	5.2	86	175	41	11	7.9
16....	14	5.8	....	....	....	....	5.0	84	168	38	11	8.2
17....	14	5.8	....	....	....	....	5.0	70	150	37	10	7.6
18....	12	5.8	....	....	....	....	5.0	73	122	35	10	7.3
19....	9.7	5.8	....	....	....	....	5.0	97	106	33	9.7	7.3
20....	13	5.4	....	....	....	....	5.2	110	93	30	9.4	7.3
21....	10	5.4	....	....	....	....	6.0	122	86	29	9.7	7.6
22....	10	5.4	....	....	....	....	6.6	154	78	28	9.4	7.3
23....	11	5.2	....	....	....	....	7.6	147	78	26	8.8	7.3
24....	12	5.4	....	....	....	....	7.0	131	79	25	9.4	9.4
25....	11	5.4	....	....	....	....	6.6	108	81	23	9.7	11
26....	9.7	5.4	....	....	....	....	7.2	84	78	26	8.8	11
27....	9.1	5.4	....	....	....	....	7.9	76	76	27	10	9.4
28....	8.5	5.2	....	....	....	....	12	89	75	23	10	9.7
29....	9.1	5.2	....	....	....	....	22	119	73	23	10	10
30....	8.5	5.2	....	....	....	....	32	144	75	31	9.4	8.5
31....	7.6	....	....	....	....	....	....	161	....	27	8.2	....
Total	373.2	173.9	148.8	133.3	109.2	114.7	210.5	2576	3767	1270	410.5	247.7
Mean.	12.0	5.80	4.8	4.3	3.9	3.7	7.02	83.1	126	41.0	13.2	8.26
Max..	16	7.3	....	....	....	....	32	161	203	69	24	11
Min...	7.6	5.2	....	....	....	....	4.0	36	73	23	8.2	7.0
Acre-ft.	740	345	295	264	217	228	418	5110	7470	2520	814	491

Total run-off for water year 1938-39=18,910 acre-feet.

Discharge of Williams Fork River Below Steelman Creek, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.9	6.6	....	....	....	....	1.2	7.1	36	9.8	2.1	12
2....	7.7	6.4	....	....	....	....	1.2	12	43	9.6	1.8	12
3....	7.7	6.4	....	....	....	....	1.2	13	42	9.8	1.7	16
4....	7.9	6.4	....	....	....	....	1.2	16	39	9.6	1.6	14
5....	7.9	6.6	....	....	....	....	1.2	18	32	8.4	1.5	12
6....	8.2	5.7	....	....	....	....	1.2	21	25	7.9	1.5	12
7....	6.8	5.6	....	....	....	....	1.2	20	22	7.7	1.4	12
8....	6.6	6.0	....	....	....	....	1.1	25	20	7.5	1.3	13
9....	7.1	6.2	....	....	....	....	1.1	32	17	7.1	1.2	13
10....	8.2	6.2	....	....	....	....	1.1	29	15	7.1	2.0	13
11....	7.5	6.2	....	....	....	....	1.1	11	15	7.1	1.6	12
12....	7.7	6.2	....	....	....	....	1.5	12	16	6.8	1.4	12
13....	7.1	6.0	....	....	....	....	1.8	13	17	6.6	1.2	13
14....	6.8	5.8	....	....	....	....	2.1	11	18	6.8	1.1	12
15....	6.6	5.4	....	....	....	....	2.4	12	18	6.2	6.2	12
16....	6.4	4.9	....	....	....	....	2.3	13	17	6.0	9.3	12
17....	6.4	4.6	....	....	....	....	2.4	13	17	7.1	8.8	12
18....	6.8	4.3	....	....	....	....	2.8	13	16	7.5	8.4	12
19....	6.6	4.2	....	....	....	....	3.4	12	15	6.6	12	12
20....	6.8	4.3	....	....	....	....	4.1	12	20	6.0	14	12
21....	6.4	4.3	....	....	....	....	4.7	11	18	5.7	13	12
22....	6.2	4.3	....	....	....	....	4.9	11	16	5.5	12	12
23....	6.2	4.2	....	....	....	....	4.8	11	13	5.1	13	12
24....	6.0	4.1	....	....	....	....	5.2	11	13	4.7	18	11
25....	6.2	4.1	....	....	....	....	7.0	11	12	4.2	21	12
26....	5.7	4.2	....	....	....	....	8.0	12	12	3.7	22	17
27....	6.0	4.1	....	....	....	....	8.0	13	11	3.3	21	19
28....	5.6	3.8	....	....	....	....	7.6	14	11	3.2	17	17
29....	6.0	3.5	....	....	....	1.1	7.2	14	10	3.1	14	17
30....	5.6	3.3	....	....	....	....	7.1	17	10	2.9	13	17
31....	6.2	....	....	....	....	....	....	25	....	2.5	12	....
Total	210.8	153.9	77.5	49.6	37.7	37.2	100.1	465.1	586	195.1	256.1	396
Mean.	6.80	5.13	2.5	1.6	1.3	1.2	3.34	15.0	19.5	6.29	8.26	13.2
Max..	8.2	6.6	....	....	....	....	8.0	32	43	9.8	22	19
Min...	5.6	3.3	....	....	....	....	1.1	7.1	10	2.5	1.1	11
Acre-ft.	418	305	154	98	75	74	199	923	1160	387	508	785

Total run-off for water year 1939-40=5,090 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Williams Fork River Below Steelman Creek for Diversion by Jones Pass Tunnel, for Water Year October 1, 1939, to September 30, 1940.

Month	Runoff in Acre-Feet	Diverted by Jones Pass Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	418	0	418
November	305	0	305
December	154	0	154
January, 1940	98	0	98
February	75	0	75
March	74	0	74
April	199	0	199
May	923	1970	2890
June	1160	5560	6720
July	387	1747	2130
August	508	284	792
September	785	0	785
Total run-off for water year 1939-1940	5090	9560	14640

Discharge of Williams Fork River Near Leal, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	46	34	31	27	21	19	23	164	702	234	86	40
2....	45	31	31	26	21	19	24	183	594	220	77	37
3....	46	33	30	27	22	18	25	188	600	211	72	34
4....	46	42	30	27	22	18	28	183	732	198	66	33
5....	45	37	31	28	22	18	32	204	810	188	66	34
6....	47	36	31	27	22	18	28	209	762	188	67	39
7....	54	36	30	26	22	18	28	162	672	174	95	40
8....	54	37	30	26	22	18	29	153	588	162	74	41
9....	47	37	30	26	21	18	31	186	534	153	64	37
10....	48	37	30	26	22	19	29	222	502	146	60	34
11....	47	36	30	25	21	19	28	225	485	140	56	38
12....	45	32	29	25	21	20	30	217	502	134	54	36
13....	44	31	28	25	21	20	33	204	564	128	50	36
14....	42	33	23	25	21	20	36	245	660	124	47	36
15....	42	33	29	24	21	20	34	312	630	120	46	34
16....	40	34	28	25	21	20	31	331	594	118	45	34
17....	41	34	28	24	22	20	30	298	534	114	41	34
18....	37	34	23	24	21	19	30	298	450	106	40	32
19....	39	34	29	24	21	20	32	381	386	98	38	31
20....	34	33	28	24	21	21	31	460	338	95	37	30
21....	36	32	28	24	21	21	38	496	323	91	38	31
22....	35	32	28	23	21	23	60	582	294	84	38	30
23....	32	30	28	23	21	25	67	636	284	81	35	31
24....	33	33	28	23	21	25	60	564	288	77	35	35
25....	33	32	28	22	21	25	54	475	288	76	39	44
26....	33	30	28	23	20	25	58	372	271	81	36	45
27....	34	30	28	21	20	27	77	335	261	95	39	40
28....	34	30	28	21	21	24	108	372	252	88	45	39
29....	32	31	28	21	....	24	144	470	242	74	42	42
30....	34	30	28	21	....	24	160	564	245	100	45	37
31....	34	....	28	21	....	24	....	684	....	102	40	....
Total	1259	1004	887	754	594	649	1418	10375	14387	4000	1613	1084
Mean.	40.6	33.5	28.6	24.3	21.2	20.9	47.3	335	480	129	52.0	36.1
Max..	54	42	31	28	22	27	160	684	810	234	95	45
Min...	32	30	23	21	20	18	23	153	242	74	35	30
Acre-ft.	2500	1990	1760	1500	1180	1290	2810	20580	28540	7930	3200	2150

Total run-off for water year 1938-39=75,430 acre-feet.

Discharge of Williams Fork River Near Leal, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	33	18	14	17	16	25	45	386	151	33	42
2....	33	33	17	14	17	17	25	54	430	149	32	38
3....	32	30	18	14	16	15	24	73	422	171	31	40
4....	35	29	18	16	16	16	24	88	399	157	30	59
5....	35	32	16	16	16	16	24	102	386	130	29	44
6....	36	32	16	16	15	18	25	106	342	120	28	40
7....	34	30	17	15	17	17	24	122	284	109	29	41
8....	34	28	17	16	16	17	22	118	274	101	29	38
9....	40	31	18	16	17	18	23	138	242	93	28	44
10....	37	22	18	16	18	19	22	160	228	87	27	48
11....	38	25	18	16	17	20	18	155	252	84	27	43
12....	38	28	18	17	17	18	21	166	261	78	25	40
13....	37	29	17	18	17	18	25	188	288	75	23	43
14....	36	26	18	17	17	18	29	146	308	73	22	44
15....	35	26	17	18	17	19	32	155	312	66	22	44
16....	35	25	18	17	16	18	30	183	294	68	26	43
17....	34	23	16	17	18	20	26	186	294	85	28	43
18....	33	22	14	18	17	19	30	162	281	96	28	43
19....	33	20	14	18	17	18	40	160	268	84	30	44
20....	32	21	15	17	16	19	50	164	277	71	40	45
21....	32	22	15	18	16	20	51	171	298	66	39	42
22....	32	22	14	18	16	19	50	146	261	63	38	43
23....	32	22	14	17	16	20	45	140	231	60	35	41
24....	31	21	14	17	15	22	52	149	209	57	47	41
25....	32	21	14	17	15	24	52	164	198	51	61	42
26....	32	22	14	17	15	24	57	174	186	51	63	60
27....	32	22	14	17	15	24	68	204	171	47	67	67
28....	26	19	13	18	15	22	64	204	157	46	59	60
29....	31	18	13	18	14	22	51	239	149	44	51	56
30....	26	18	14	19	....	22	46	261	146	42	45	57
31....	32	....	14	18	....	24	....	327	....	36	43	....
Total	1039	752	491	520	471	599	1075	4850	8234	2611	1115	1375
Mean.	33.5	25.1	15.8	16.8	16.2	19.3	35.8	156	274	84.2	36.0	45.8
Max..	40	33	18	19	18	24	68	327	430	171	67	67
Min...	26	18	13	14	14	15	18	45	146	36	22	38
Acre-ft.	2060	1490	974	1030	934	1190	2130	9620	16330	5180	2210	2730

Total run-off for water year 1939-40=45,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Williams Fork River Near Leal for Diversion by Jones Pass Tunnel, for Water Year October 1, 1939, to September 30, 1940.

Month	Runoff in Acre-Feet	Diverted by Jones Pass Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	2060	0	2060
November	1490	0	1490
December	974	0	974
January	1030	0	1030
February	934	0	934
March	1190	0	1190
April	2130	0	2130
May	9620	1970	11590
June	16330	5560	21890
July	5180	1750	6930
August	2210	284	2490
September	2730	0	2730
Total run-off for water year 1939-1940	45880	9560	55440

Discharge of Williams Fork River Near Parshall, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	69	43	46	41	37	34	48	326	695	217	113	49
2....	71	44	44	42	36	36	47	362	635	201	97	47
3....	73	40	45	44	32	37	53	372	585	194	88	34
4....	69	54	47	38	29	35	62	362	635	185	82	20
5....	67	54	49	39	27	35	71	372	675	173	74	19
6....	67	50	46	37	33	36	62	398	665	167	76	21
7....	73	46	47	35	34	38	54	318	615	155	123	24
8....	74	46	50	33	36	39	52	269	565	141	111	24
9....	73	47	48	38	33	38	58	313	520	133	95	25
10....	71	54	48	38	36	40	50	385	495	125	86	22
11....	64	50	40	38	30	38	47	376	495	120	78	22
12....	62	47	41	39	29	37	50	376	490	113	76	21
13....	60	47	39	32	31	39	64	354	530	108	58	50
14....	59	48	40	35	34	37	76	403	570	102	49	52
15....	58	50	44	32	35	33	76	470	575	99	48	52
16....	56	52	44	36	36	41	65	490	560	99	46	52
17....	58	56	44	33	31	41	53	448	525	91	49	33
18....	56	58	40	37	27	41	52	444	485	80	49	18
19....	56	60	43	40	32	46	62	510	426	74	48	18
20....	50	56	41	38	33	42	62	565	385	71	48	18
21....	56	52	44	41	33	41	86	570	367	65	49	18
22....	48	43	46	31	28	46	147	660	336	62	48	18
23....	48	44	40	32	35	50	182	715	308	56	44	19
24....	48	44	41	35	35	54	152	660	300	52	41	20
25....	47	48	39	36	37	65	141	605	295	50	44	27
26....	48	50	39	33	36	63	150	530	271	52	42	27
27....	47	47	37	36	34	57	176	462	255	69	41	28
28....	47	44	39	37	33	52	238	475	238	76	53	26
29....	42	42	40	38	....	50	300	525	227	71	54	32
30....	42	44	39	37	....	48	331	570	227	88	54	26
31....	43	....	40	38	....	48	....	605	....	144	50	....
Total	1802	1460	1330	1139	922	1337	3067	14290	13950	3433	2014	862
Mean.	58.1	48.7	42.9	36.7	32.9	43.1	102	461	465	111	65.0	28.7
Max..	74	60	50	44	37	65	331	715	695	217	123	52
Min...	42	40	37	31	27	33	47	269	227	50	41	18
Acre-ft.	3570	2900	2640	2260	1830	2650	6080	28340	27670	6810	3990	1710

Total run-off for water year 1938-39=90,450 acre-feet.

Discharge of Williams Fork River Near Parshall, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	24	48	41	34	28	35	53	90	465	100	45	63
2....	22	49	41	32	28	33	53	105	465	105	42	60
3....	21	45	38	33	27	31	48	135	500	115	40	54
4....	23	42	39	35	27	33	49	170	451	145	39	71
5....	24	46	39	33	26	35	50	200	428	100	38	68
6....	24	49	41	29	26	35	52	206	420	92	37	62
7....	25	43	42	28	26	36	48	226	343	77	37	60
8....	56	41	42	32	25	36	44	206	320	74	43	57
9....	64	44	40	28	25	37	48	216	268	72	51	60
10....	62	39	38	30	26	38	44	280	244	62	52	68
11....	60	39	41	28	26	37	39	280	256	57	56	67
12....	59	43	38	26	25	36	39	289	256	59	51	62
13....	58	44	35	27	25	35	44	338	284	62	43	54
14....	59	44	36	26	24	36	56	276	312	63	34	45
15...	56	43	37	23	25	37	71	272	325	62	28	44
16....	54	43	38	24	24	41	75	284	289	58	28	43
17....	52	43	39	24	23	40	58	281	281	58	30	40
18....	51	40	37	22	25	42	64	256	260	75	30	40
19....	50	38	30	22	26	44	88	248	240	125	34	50
20....	50	40	31	22	27	45	110	248	233	120	48	62
21....	48	39	32	23	26	46	110	248	294	105	51	60
22....	49	42	28	22	27	43	100	226	256	96	51	62
23....	48	43	31	22	28	45	82	200	200	74	49	60
24....	49	41	28	23	31	46	96	197	176	70	57	59
25....	48	39	30	25	28	48	96	206	165	64	88	59
26....	49	40	31	24	30	48	103	220	148	62	94	74
27....	50	43	29	24	32	46	127	268	127	59	96	90
28....	43	40	26	25	33	46	127	272	110	56	90	78
29....	48	38	28	27	35	42	105	298	92	52	75	78
30....	41	40	32	27	....	43	96	325	84	50	68	78
31....	46	....	35	26	....	49	....	384	....	48	65	....
Total	1413	1268	1093	826	784	1244	2175	7453	8295	2417	1590	1828
Mean.	45.6	42.3	35.3	26.6	27.0	40.1	72.5	240	276	78.0	51.3	60.9
Max..	64	49	42	35	35	49	127	384	500	145	96	90
Min...	21	38	26	22	23	31	39	90	84	48	28	40
Acre-ft.	2800	2520	2170	1640	1560	2470	4310	14780	16450	4790	3150	3630

Total run-off for water year 1939-40=60,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Williams Fork River Near Parshall for Diversion by Jones Pass Tunnel, for Water Year October 1, 1939, to September 30, 1940.

Month	Runoff in Acre-Feet	Diverted by Jones Pass Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	2800	0	2800
November	2520	0	2520
December	2170	0	2170
January	1640	0	1640
February	1560	0	1560
March	2470	0	2470
April	4310	0	4310
May	14780	1970	16750
June	16450	5560	22010
July	4790	1750	6540
August	3150	284	3430
September	3630	0	3630
Total run-off for water year 1939-1940	60270	9560	69830

Discharge of Blue River at Dillon, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	70	48	37	27	19	22	37	271	470	224	101	52
2....	70	50	35	27	17	21	36	296	450	219	101	52
3....	68	50	33	28	16	20	38	307	440	216	113	47
4....	65	51	34	28	18	20	39	307	470	211	113	50
5....	65	51	35	26	20	21	35	318	498	208	108	48
6....	67	47	32	25	21	20	29	366	503	206	111	48
7....	72	43	32	24	21	21	30	339	465	203	87	48
8....	80	39	33	22	19	23	31	303	420	201	87	46
9....	78	40	31	23	19	22	32	285	385	198	81	48
10....	77	40	33	24	18	24	32	299	370	188	70	48
11....	74	41	30	24	18	26	32	344	366	181	76	48
12....	70	43	27	25	17	24	33	357	352	176	61	48
13....	68	38	24	24	19	25	36	339	344	165	59	48
14....	67	37	22	22	18	26	39	348	375	156	57	50
15....	64	38	23	20	20	25	42	361	400	142	57	48
16....	63	39	25	23	21	28	40	410	395	136	59	52
17....	63	40	27	23	17	31	37	425	385	130	55	50
18....	63	41	24	24	17	28	39	415	361	122	54	48
19....	62	42	26	24	21	29	39	430	318	110	50	47
20....	59	39	25	22	23	31	41	508	288	101	50	47
21....	54	37	26	23	22	33	48	530	268	98	48	46
22....	54	32	27	21	21	35	60	547	254	99	48	44
23....	53	31	24	22	20	38	72	564	245	96	48	46
24....	51	29	25	21	21	36	86	564	239	96	48	44
25....	50	30	24	19	22	38	94	503	245	106	48	46
26....	49	33	25	18	21	39	105	435	248	106	48	47
27....	49	36	23	19	22	36	128	375	242	103	47	46
28....	49	37	25	20	20	35	163	370	236	101	48	47
29....	48	33	26	21	....	33	219	395	233	108	47	46
30....	47	35	27	22	....	34	215	430	227	111	46	44
31....	47	....	26	21	....	35	....	445	....	101	52	....
Total	1916	1190	866	712	548	879	1937	12186	10492	4618	2078	1429
Mean.	61.8	39.7	27.9	23.0	19.6	28.4	64.6	393	350	149	67.0	47.6
Max..	80	51	37	28	23	39	245	564	503	224	113	52
Min...	47	29	22	18	16	20	29	271	227	96	46	44
Acre-ft.	3800	2360	1720	1410	1090	1740	3840	24170	20810	9160	4120	2830

Total run-off for water year 1938-39=77,050 acre-feet.

Discharge of Blue River at Dillon, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	40	30	23	16	14	12	23	55	338	185	68	53
2....	38	30	23	17	16	13	24	55	379	192	64	51
3....	38	30	22	17	16	15	24	61	379	176	61	49
4....	38	32	21	18	16	15	24	71	338	173	60	47
5....	38	30	22	17	16	16	25	89	326	165	60	47
6....	38	30	22	17	16	15	25	104	323	156	59	46
7....	38	31	20	16	16	14	24	104	278	146	59	47
8....	40	32	20	18	16	16	26	118	239	138	58	47
9....	40	30	21	17	15	17	24	124	222	130	58	46
10....	38	27	22	18	16	19	24	138	210	122	56	50
11....	38	24	23	17	16	19	27	160	208	120	56	58
12....	36	26	20	15	15	18	31	188	212	114	55	60
13....	36	27	18	14	14	18	21	202	225	107	53	60
14....	36	28	15	13	13	18	23	202	239	104	52	61
15....	36	28	15	12	14	18	25	195	260	107	51	64
16....	36	27	16	12	12	20	26	198	251	105	50	64
17....	36	25	19	13	11	19	26	210	239	109	47	64
18....	35	23	17	11	10	19	28	215	254	116	45	62
19....	35	21	14	10	12	19	30	190	248	120	45	61
20....	34	22	14	11	12	20	33	178	251	114	44	59
21....	32	24	15	11	13	21	37	180	264	107	44	55
22....	32	24	14	10	13	21	36	178	254	102	47	55
23....	30	25	15	11	14	21	42	171	239	98	48	59
24....	32	25	14	12	13	22	44	167	228	95	47	64
25....	33	23	15	13	12	22	47	169	218	89	49	68
26....	34	22	15	14	12	22	50	176	210	86	52	71
27....	33	22	14	15	13	22	55	190	200	82	58	74
28....	30	23	13	16	12	22	61	202	188	79	64	79
29....	31	22	14	15	12	22	64	218	188	77	62	76
30....	30	22	15	14	....	22	59	248	180	74	60	74
31....	32	....	16	13	....	23	....	292	....	72	55	....
Total	1093	785	547	443	400	580	1008	5048	7588	3660	1687	1771
Mean.	35.3	26.2	17.6	14.3	13.8	18.7	33.6	163	253	118	54.4	59.0
Max..	40	32	23	18	16	23	64	292	379	192	68	79
Min...	30	21	13	10	10	12	21	55	180	72	44	46
Acre-ft.	2170	1560	1080	879	793	1150	2000	10010	15050	7260	3350	3510

Total run-off for water year 1939-40=48,810 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Blue River Below Green Mountain Reservoir Site Near Kremmling, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	288	193	150	130	115	105	210	1290	2740	954	420	266
2....	288	200	155	135	110	110	220	1520	2280	933	407	263
3....	292	186	145	130	110	110	228	1580	2100	905	378	246
4....	284	200	150	130	110	105	246	1460	2360	884	359	228
5....	277	214	155	130	110	105	266	1670	2600	849	340	228
6....	274	180	155	130	110	110	246	1830	2480	842	348	242
7....	288	161	155	130	110	115	218	1430	2200	807	399	266
8....	325	180	155	125	110	115	210	1210	2040	772	374	292
9....	317	193	150	125	105	125	242	1290	1790	744	344	336
10....	292	207	160	130	105	120	224	1710	1640	712	321	281
11....	295	193	145	125	105	120	207	1750	1670	700	310	274
12....	284	165	135	130	100	125	221	1760	1660	664	299	281
13....	270	150	135	125	100	125	263	1620	1760	631	295	277
14....	263	155	120	130	105	130	295	1660	2030	593	288	277
15....	256	160	125	120	105	120	292	1980	2060	567	281	274
16....	252	165	130	125	100	125	266	2220	1910	552	274	263
17....	249	160	130	125	96	130	228	2160	1840	538	266	256
18....	242	165	130	120	94	135	210	1930	1580	509	263	238
19....	235	160	125	120	96	135	249	2220	1340	477	256	228
20....	221	155	130	125	96	125	249	2570	1210	455	252	214
21....	218	145	130	128	94	135	299	2560	1140	437	252	214
22....	214	134	130	125	93	140	411	2740	1090	420	252	210
23....	204	125	130	125	96	155	528	2840	1050	399	238	204
24....	197	120	130	120	98	160	509	2590	1090	386	238	210
25....	193	115	125	120	98	155	482	2240	1120	378	242	221
26....	197	115	125	115	100	165	491	1830	1080	374	242	232
27....	200	125	120	115	100	175	578	1600	1030	403	246	232
28....	200	130	125	120	105	180	751	1670	1020	420	274	228
29....	193	140	125	120	....	178	996	2050	1010	399	274	246
30....	193	145	125	115	....	190	1180	2380	982	411	284	238
31....	193	....	130	115	....	200	....	2480	....	442	277	....
Total	7694	4836	4230	3858	2876	4223	11015	59840	49902	18557	9293	7465
Mean.	248	161	136	124	103	136	367	1930	1663	599	300	249
Max..	325	214	160	135	115	200	1180	2840	2740	954	420	336
Min...	193	115	120	115	93	105	207	1210	982	374	238	204
Acre-ft.	15260	9590	8390	7650	5700	8380	21850	118700	98980	36810	18430	14810

Total run-off for water year 1938-39=364,600 acre-feet.

Discharge of Blue River Below Green Mountain Reservoir Site Near Kremmling, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	228	158	110	110	86	110	176	260	2320	900	326	278
2....	218	158	115	110	86	110	180	282	2440	914	314	263
3....	204	148	120	110	88	105	145	334	2390	949	298	249
4....	210	148	120	115	90	110	143	445	2100	970	286	270
5....	214	145	115	115	88	110	158	555	2030	848	282	263
6....	221	145	110	110	86	115	166	560	1920	783	270	256
7....	210	134	110	110	88	110	145	623	1400	724	274	252
8....	210	126	114	100	90	110	130	628	1330	675	270	242
9....	235	128	120	98	92	115	136	669	1160	640	266	242
10....	224	110	115	96	92	115	136	816	1010	612	252	249
11....	214	107	115	96	92	120	124	1020	1030	590	252	260
12....	210	115	110	96	90	120	115	1240	1240	590	238	256
13....	204	115	105	96	88	115	134	1410	1450	540	226	260
14....	197	114	105	94	86	115	161	1100	1740	530	214	266
15....	190	110	105	92	84	120	204	1000	1750	510	214	263
16....	186	107	105	88	84	120	224	1180	1480	525	211	263
17....	180	101	110	92	82	125	180	1280	1570	585	211	260
18....	176	98	110	88	80	130	176	1020	1600	687	205	266
19....	169	97	105	84	80	135	218	874	1550	731	205	270
20....	166	98	100	86	84	145	263	914	1560	606	223	270
21....	163	100	100	86	84	150	299	928	1610	530	226	256
22....	163	105	98	86	86	150	310	842	1540	520	232	260
23....	158	105	96	84	90	150	281	790	1360	470	229	252
24....	156	100	98	86	92	155	302	854	1270	450	238	260
25....	153	100	100	88	94	163	314	914	1120	426	302	274
26....	156	105	98	92	96	158	318	1000	1090	404	418	306
27....	158	105	94	90	100	158	346	1270	978	382	422	322
28....	136	110	92	90	105	156	350	1210	956	368	386	310
29....	150	110	94	90	110	136	318	1420	914	359	350	322
30....	136	110	100	90	....	132	290	1620	861	350	318	318
31....	156	....	105	88	....	153	....	1970	....	346	294	....
Total	5751	3512	3294	2956	2593	4016	6442	29028	44769	18514	8452	8078
Mean.	186	117	106	95.4	89.4	130	215	936	1492	597	273	269
Max..	235	158	120	115	110	163	350	1970	2440	970	422	322
Min...	136	97	92	84	80	105	115	260	861	346	205	242
Ac.-ft.	11410	6970	6530	5860	5140	7970	12780	57580	88800	36720	16760	16020

Total run-off for water year 1939-40=272,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Snake River at Dillon, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	15	9.6	10	10	10	10	9.6	112	378	106	30	13
2....	16	10	10	10	9	9	11	139	373	106	39	13
3....	16	12	9	11	8	10	12	135	391	102	29	11
4....	15	11	8.9	11	9	9	13	133	418	99	29	11
5....	14	10	8.9	10	10	10	14	153	432	93	28	11
6....	16	9	8.9	11	11	9	12	161	386	93	28	11
7....	26	9	8.9	11	11	10	11	174	355	88	29	11
8....	29	9	8.9	9	10	11	12	156	327	86	26	13
9....	21	10	8.9	9	10	10	12	195	315	80	25	9.2
10....	18	10	9.2	10	9	10	11	238	303	75	24	9.2
11....	13	11	9.2	10	9	9.2	11	253	287	72	23	10
12....	11	11	9.6	11	9	8	11	256	287	71	22	11
13....	11	10	9	10	10	6.4	13	211	307	62	20	9.6
14....	11	9	8	10	10	5.9	14	177	323	50	19	11
15....	11	10	9	10	11	6.7	14	228	323	46	19	11
16....	10	11	9	9.6	12	7.0	14	253	307	45	18	11
17....	11	11	10	10	10	7.0	14	231	295	44	18	10
18....	11	10	9	9.6	10	7.5	16	235	260	44	19	10
19....	11	11	9	9.2	12	8.1	14	327	221	40	19	9.6
20....	11	11	10	9.6	11	8.4	14	368	198	35	19	9.2
21....	12	11	10	9.6	12	8.9	19	382	189	32	20	8.9
22....	11	10	10	11	12	9.2	29	427	183	30	19	8.9
23....	12	10	9	10	12	11	32	414	180	29	18	8.4
24....	13	9	10	10	12	11	28	378	180	29	16	8.6
25....	13	9	10	9	11	11	26	335	183	30	16	8.6
26....	11	9	10	8	10	11	31	279	169	32	14	9.2
27....	11	9	9	9	11	11	38	260	141	39	14	9.2
28....	10	10	9	10	10	9.6	59	291	122	34	14	9.6
29....	10	10	10	11	....	9.6	72	335	114	29	14	9.6
30....	9.2	10	10	12	....	9.2	86	351	112	38	18	9.6
31....	9.6	....	9	11	....	9.6	....	368	....	33	14	....
Total	418.8	301.6	289.4	311.6	291	283.3	672.6	7955	8059	1792	660	305.4
Mean.	13.5	10.1	9.34	10.1	10.4	9.14	22.4	257	269	57.8	21.3	10.2
Max..	29	12	10	12	12	11	86	427	432	106	39	13
Min...	9.2	9	8	8	8	5.9	9.6	112	112	29	14	8.4
Acre-ft.	831	598	574	618	577	562	1330	15780	15980	3550	1310	606

Total run-off for water year 1938-39=42,320 acre-feet.

Discharge of Snake River at Dillon, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.6	9.6	9.8	5.4	6.4	8.0	10	14	344	120	23	13
2....	9.6	9.6	9.4	5.4	7.5	10	8.6	16	352	115	23	12
3....	13	9.6	9.0	5.2	7.8	7.5	7.8	16	322	111	21	12
4....	11	10	9.0	6.7	7.8	8.6	7.8	16	306	107	20	12
5....	8.6	9.6	8.4	5.4	7.8	8.1	8.4	17	322	92	19	11
6....	8.6	9.6	8.4	5.7	8.1	7.5	8.4	14	283	83	19	11
7....	8.6	10	8.0	5.6	7.8	8.9	7.5	23	235	82	19	12
8....	8.6	10	8.0	6.2	7.5	7.8	7.8	30	222	75	19	14
9....	8.9	10	8.2	6.0	7.8	7.0	8.1	32	201	71	18	12
10....	8.6	9.0	8.4	6.4	7.5	6.7	7.2	52	204	59	17	13
11....	8.9	8.6	7.6	6.0	7.8	6.7	7.2	69	222	56	16	14
12....	8.6	9.2	7.0	5.4	7.4	6.7	12	102	235	56	16	13
13....	8.9	9.6	6.0	5.4	6.4	6.4	7.8	108	254	49	14	13
14....	9.6	9.8	5.8	4.8	5.8	6.6	11	78	294	43	14	12
15....	9.6	10	6.0	4.4	6.2	7.4	12	86	283	47	13	13
16....	9.6	10	6.4	4.4	6.0	8.6	11	108	261	45	13	12
17....	9.6	9.8	6.7	4.8	5.2	7.0	10	118	265	45	13	12
18....	8.9	9.2	6.4	4.2	5.8	7.2	12	88	248	54	12	12
19....	9.2	8.6	5.6	3.8	6.2	7.0	16	78	241	58	12	11
20....	9.2	9.2	6.0	4.6	6.6	6.7	18	78	254	47	12	11
21....	9.6	9.6	6.2	5.0	7.0	7.5	16	74	261	45	12	10
22....	9.2	9.6	5.4	4.2	6.4	8.9	15	56	225	42	12	11
23....	9.2	10	6.0	4.6	6.8	8.9	14	56	195	35	12	9.9
24....	9.6	10	5.2	5.0	7.4	8.6	14	64	181	33	12	9.9
25....	9.6	9.4	5.8	5.4	7.0	8.4	14	75	159	31	13	9.5
26....	9.2	8.4	5.6	5.8	5.7	8.6	14	86	142	27	13	10
27....	10	8.4	5.2	6.2	5.2	7.8	14	116	134	28	14	9.9
28....	9.0	9.2	4.8	6.6	7.8	7.0	14	116	124	30	14	10
29....	9.6	8.4	5.0	6.4	7.0	6.7	14	152	116	28	15	11
30....	8.6	8.4	5.2	6.0	....	7.2	14	186	120	26	14	12
31....	9.2	....	5.4	5.6	....	8.6	....	276	....	25	14	....
Total	290.0	282.4	209.9	166.6	199.7	238.6	341.6	2400	7005	1765	478	348.2
Mean.	9.35	9.41	6.77	5.37	6.89	7.70	11.4	77.4	234	56.9	15.4	11.6
Max..	13	10	9.8	6.7	8.1	10	18	276	352	120	23	14
Min...	8.6	8.4	4.8	3.8	5.2	6.4	7.2	14	116	25	12	9.5
Acre-ft.	575	560	416	330	396	473	678	4760	13890	3500	948	691

Total run-off for water year 1939-40=27,220 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ten Mile Creek at Dillon, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	42	36	34	24	18	19	39	342	639	190	89	49
2....	42	36	32	24	16	18	33	371	499	180	89	46
3....	43	37	30	25	15	18	35	366	531	170	82	43
4....	43	36	31	25	17	18	36	391	639	161	75	38
5....	43	38	32	24	18	19	40	474	681	159	59	40
6....	44	36	30	23	19	18	39	468	577	151	59	43
7....	52	35	29	21	19	19	39	338	493	146	59	44
8....	52	34	31	20	17	20	38	319	451	148	59	45
9....	45	36	28	21	17	19	36	401	434	148	59	43
10....	44	36	30	22	16	21	35	505	396	138	54	40
11....	58	37	27	22	16	23	36	505	396	136	51	43
12....	49	39	24	23	15	21	37	468	386	126	51	43
13....	46	36	22	21	17	22	40	428	417	114	50	40
14....	43	34	21	20	16	23	44	499	445	110	48	37
15....	44	34	22	19	18	22	43	618	428	106	48	37
16....	45	35	23	21	19	24	42	660	391	106	46	41
17....	44	36	24	21	17	27	42	583	376	102	44	40
18....	40	37	22	22	17	25	43	544	338	92	43	36
19....	40	38	24	22	18	26	39	674	281	90	42	33
20....	39	35	23	25	21	28	41	765	257	87	40	32
21....	40	33	24	30	19	30	48	758	245	81	42	32
22....	37	29	25	25	18	31	70	800	238	78	42	32
23....	36	28	22	22	18	33	89	793	227	76	40	31
24....	35	26	23	19	19	31	87	653	234	69	38	33
25....	35	27	22	18	20	33	78	544	238	68	43	36
26....	35	30	23	17	18	34	83	456	223	76	42	36
27....	35	33	21	18	19	32	110	417	213	90	42	35
28....	35	34	22	18	18	31	156	487	206	89	44	34
29....	36	30	23	19	....	30	223	583	199	95	44	38
30....	36	32	25	20	....	33	297	611	203	98	59	35
31....	36	....	23	19	....	36	....	625	....	89	52	....
Total	1294	1023	792	670	495	784	2018	16446	11281	3569	1635	1155
Mean.	41.7	34.1	25.5	21.6	17.7	25.3	67.3	531	376	115	52.7	38.5
Max..	58	39	34	30	21	36	297	800	681	190	89	49
Min...	35	26	21	17	15	18	33	319	199	68	38	31
Acre-ft.	2570	2030	1570	1330	982	1560	4000	32620	22380	7080	3240	2290

Total run-off for water year 1938-39=81,650 acre-feet.

Discharge of Tenmile Creek at Dillon, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	32	24	16	15	13	10	38	67	475	188	51	36
2....	31	24	16	15	15	11	37	81	505	175	49	34
3....	31	27	15	16	15	12	34	110	470	170	45	33
4....	31	22	15	16	15	12	34	139	451	163	43	36
5....	31	23	16	16	15	12	37	156	415	148	42	32
6....	31	24	16	15	16	11	38	151	358	142	41	31
7....	31	23	15	14	15	10	35	180	302	135	42	31
8....	31	22	15	16	15	11	34	180	283	131	43	34
9....	32	19	16	15	14	12	36	216	258	118	41	33
10....	30	17	17	16	15	12	40	269	243	93	41	37
11....	29	15	18	15	14	11	40	306	262	102	40	42
12....	28	17	16	13	13	10	40	330	283	99	37	41
13....	28	18	14	13	12	10	42	330	302	88	32	43
14....	27	19	13	12	11	13	46	266	318	83	31	38
15....	28	19	13	10	12	14	55	269	290	83	34	38
16....	27	18	14	10	11	16	50	290	262	90	33	42
17....	27	17	16	11	8	15	43	298	266	106	36	37
18....	27	15	13	10	9	15	45	280	262	110	34	37
19....	25	14	12	8	11	16	54	269	255	118	33	35
20....	24	15	13	10	12	20	60	276	258	90	35	34
21....	23	16	13	10	12	21	70	258	252	86	36	33
22....	23	16	12	8	11	23	72	225	240	86	41	36
23....	22	17	13	9	12	25	75	249	228	75	37	37
24....	23	17	12	10	12	29	81	280	213	70	41	43
25....	23	16	13	11	11	30	80	298	198	66	55	46
26....	25	15	13	12	10	31	84	322	185	63	72	52
27....	24	15	12	13	11	31	91	302	178	62	67	59
28....	22	16	11	14	10	31	86	290	168	59	56	49
29....	23	15	12	13	10	31	75	338	160	57	49	46
30....	21	15	13	13	....	33	67	362	163	57	42	45
31....	23	....	14	12	....	36	....	438	....	56	38	....
Total	833	550	437	391	360	574	1619	7825	8503	3169	1317	1170
Mean.	26.9	18.3	14.1	12.6	12.4	18.5	54.0	252	283	102	42.5	39.0
Max..	32	27	18	16	16	36	91	438	505	188	72	59
Min...	21	14	11	8	8	10	34	67	160	56	31	31
Acre-ft.	1650	1090	867	776	714	1140	3210	15520	16870	6290	2610	2320

Total run-off for water year 1939-40=53,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork at Aspen, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	38	39	39	26	24	24	35	291	479	118	31	15
2....	38	40	38	26	22	24	38	341	375	111	27	14
3....	38	37	37	26	24	25	43	316	383	97	27	12
4....	42	42	38	27	25	26	48	310	423	85	24	11
5....	42	43	37	27	24	25	49	330	475	82	22	11
6....	43	39	37	27	23	26	50	320	415	78	21	17
7....	60	38	36	28	23	27	48	244	348	73	26	23
8....	68	40	36	27	23	28	54	207	327	72	23	22
9....	60	40	37	26	24	28	60	231	313	68	21	21
10....	55	38	37	25	23	28	52	306	292	63	20	15
11....	50	38	37	24	24	27	50	348	320	62	18	18
12....	50	38	36	24	25	26	52	344	310	57	16	17
13....	50	38	34	25	24	25	61	310	310	52	15	18
14....	50	39	28	25	23	26	68	341	355	50	14	16
15....	55	40	31	24	25	25	61	403	327	47	14	14
16....	62	41	33	26	24	28	54	391	292	46	13	14
17....	61	43	31	25	22	28	47	363	271	41	12	13
18....	50	42	30	26	23	28	44	371	231	40	19	11
19....	49	42	31	26	25	29	50	447	196	38	20	11
20....	44	42	30	26	24	30	50	507	172	36	19	10
21....	40	41	31	27	23	32	60	479	160	32	14	10
22....	40	40	31	26	22	35	88	479	157	27	15	10
23....	38	38	31	26	23	37	124	491	162	26	14	10
24....	38	36	27	23	24	36	102	423	160	26	13	10
25....	38	38	25	22	25	37	90	375	155	24	13	10
26....	37	36	26	22	25	37	92	324	146	25	12	11
27....	38	37	25	23	24	39	102	320	136	27	13	10
28....	38	38	25	25	24	36	152	371	128	30	16	11
29....	38	37	24	25	....	34	225	431	122	35	16	14
30....	39	38	25	24	....	32	273	503	120	51	19	12
31....	39	....	25	25	....	31	....	459	....	40	16	....
Total	1428	1178	988	784	664	919	2322	11376	8060	1659	563	411
Mean.	46.1	39.3	31.9	25.3	23.7	29.6	77.4	367	269	53.5	18.2	13.7
Max..	68	43	39	28	25	39	273	507	479	118	31	23
Min...	37	36	24	22	22	24	35	207	120	24	12	10
Acre-ft.	2830	2340	1960	1560	1320	1820	4610	22560	15990	3290	1120	815

Total run-off for water year 1938-39=60,220 acre-feet.

Discharge of Roaring Fork River at Aspen, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	12	11	16	16	16	16	23	59	387	71	8.0	6.2
2....	11	11	16	18	16	15	23	68	391	67	7.4	5.7
3....	11	11	16	18	17	15	21	90	363	60	6.2	5.7
4....	11	10	16	18	16	14	21	126	327	56	7.2	6.0
5....	11	11	16	19	16	15	24	136	288	51	7.7	5.7
6....	11	12	16	20	16	16	24	122	260	50	7.4	5.5
7....	10	11	15	20	16	15	23	151	212	44	9.0	5.7
8....	10	9.3	16	21	16	15	21	142	204	37	8.7	6.2
9....	11	10	15	23	16	15	22	164	167	35	7.7	6.2
10....	10	7.4	14	23	16	16	22	212	149	34	15	6.2
11....	10	7.7	14	22	17	16	20	250	160	31	14	6.0
12....	10	11	16	23	16	15	19	268	169	27	7.4	5.7
13....	10	19	15	22	16	15	22	285	190	24	4.8	7.4
14....	10	20	14	20	16	15	26	224	212	23	3.7	12
15....	11	19	14	18	16	15	33	218	185	22	3.2	11
16....	11	18	16	18	16	16	36	257	157	24	3.3	11
17....	11	18	18	18	14	16	31	285	167	25	3.6	11
18....	11	17	17	17	14	16	28	207	157	26	3.4	22
19....	12	17	16	16	15	16	39	185	146	24	3.6	22
20....	12	16	15	17	15	16	55	180	138	22	6.0	20
21....	12	17	15	15	14	17	67	164	132	19	7.7	18
22....	10	17	15	14	16	18	75	151	134	16	8.4	28
23....	8.4	18	15	14	16	19	76	172	117	15	8.4	37
24....	8.0	18	16	14	16	21	85	201	108	15	12	48
25....	8.4	18	17	15	16	22	83	212	93	13	33	47
26....	9.0	17	17	16	16	23	93	231	83	10	48	44
27....	9.3	16	16	17	16	24	108	254	78	9.6	50	42
28....	6.0	17	14	17	16	23	83	274	71	11	41	39
29....	8.7	16	13	16	16	21	72	310	66	11	27	40
30....	7.4	17	14	15	....	20	66	302	64	10	18	40
31....	12	....	15	15	....	21	....	344	....	9.0	9.3	....
Total	315.2	437.4	478	555	458	537	1341	6244	5375	891.6	400.1	570.2
Mean.	10.2	14.6	15.4	17.9	15.8	17.3	44.7	201	179	28.8	12.9	19.0
Max..	12	20	18	23	17	24	108	344	391	71	50	48
Min...	6.0	7.4	13	14	14	14	19	59	64	9.0	3.2	5.5
Acre-ft.	625	868	948	1100	908	1070	2660	12380	10660	1770	794	1130

Total run-off for water year 1939-40=34,910 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Correction Table for Roaring Fork at Aspen, Colorado, for Diversions by Twin Lakes Tunnel, for Water Year October 1, 1938, to September 30, 1939.

Month	Runoff in Acre-Feet	Diverted by Twin Lakes Tunnel Acre-Feet	Corrected for Diversion Acre-Feet
October	2830	679	3510
November	2340	361	2700
December	1960	518	2480
January	1560	391	1950
February	1320	522	1840
March	1820	0	1820
April	4610	46	4660
May	22560	15100	37660
June	15990	14900	30890
July	3290	3710	7000
August	1120	559	1680
September	815	274	1090
Total run-off for water year 1938-1939	60220	37050	97280

For Water Year October 1, 1939, to September 30, 1940.

October	625	290	915
November	868	130	998
December	948	29	977
January	1100	32	1130
February	908	41	949
March	1070	51	1120
April	2660	451	3110
May	12380	8960	21340
June	10660	13510	24170
July	1770	2380	4150
August	794	90	884
September	1130	1080	2210
Total run-off for water year 1939-1940	34910	27040	61950

Discharge of Roaring Fork River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	624	562	554	430	366	319	530	2380	5270	1750	740	422
2....	615	597	530	460	280	306	588	2660	4100	1700	651	422
3....	651	588	506	482	268	338	651	2730	3850	1630	615	408
4....	642	597	514	482	359	345	710	2840	4440	1590	579	401
5....	642	633	506	380	422	326	770	3130	5120	1530	562	415
6....	660	588	506	490	394	300	780	3360	4840	1490	570	597
7....	690	546	490	438	408	326	720	2760	4220	1390	670	1110
8....	790	562	498	430	373	359	690	2370	3920	1310	633	970
9....	800	606	490	460	387	332	780	2510	3670	1280	588	1010
10....	760	615	490	415	306	352	760	3070	3270	1220	538	800
11....	740	624	498	401	366	352	700	3450	3580	1180	514	926
12....	730	615	490	430	345	319	690	3450	3490	1120	468	981
13....	720	538	475	415	373	338	740	2980	3880	1050	438	915
14....	710	546	366	408	366	366	800	2980	4240	1010	415	830
15....	720	562	475	366	387	319	800	3670	4120	937	394	750
16....	740	597	570	430	366	352	760	3780	3630	915	387	700
17....	760	606	514	394	293	359	700	3600	3520	860	380	670
18....	750	570	401	401	300	373	651	3560	2910	800	359	606
19....	690	562	506	401	387	394	700	4080	2410	740	359	562
20....	651	579	498	394	359	430	710	4680	2100	710	338	538
21....	624	570	490	408	345	468	790	4680	1960	651	345	546
22....	606	546	475	401	319	498	1050	4840	1900	615	338	522
23....	597	522	452	401	319	546	1360	4960	2080	579	326	514
24....	579	438	380	332	373	554	1320	4400	2180	562	319	506
25....	570	546	387	306	359	579	1140	3880	2180	546	312	506
26....	562	475	475	312	352	588	1080	3270	2060	538	312	514
27....	546	506	380	359	366	624	1210	3110	1970	546	312	514
28....	546	506	452	460	306	579	1520	3310	1940	670	338	530
29....	538	506	475	430	....	538	2040	4000	1880	730	387	642
30....	538	538	460	387	....	514	2240	4900	1810	800	430	624
31....	554	....	438	430	....	498	....	4620	....	830	438	....
Total	20345	16846	14741	12733	9844	12891	27981	110010	96540	31279	14055	19451
Mean.	656	562	476	411	352	416	933	3549	3218	1009	453	648
Max..	800	633	570	490	422	624	2240	4960	5270	1750	740	1110
Min...	538	438	366	306	268	300	530	2370	1810	538	312	401
Acre-ft.	40350	33410	29240	25260	19530	25570	55500	218200	191500	62040	27880	38580

Total run-off for water year 1938-39=767,100 acre-feet.

Discharge of Roaring Fork River at Glenwood Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	615	475	366	359	326	319	422	915	4540	1460	326	482
2....	597	490	359	326	326	306	452	882	4520	1430	300	460
3....	597	482	359	352	312	300	415	1110	4340	1360	280	452
4....	606	475	359	326	306	286	380	1670	3880	1270	262	438
5....	606	475	359	326	300	293	394	1990	3600	1180	250	422
6....	597	475	352	319	268	306	415	1850	3270	1110	250	394
7....	588	475	352	312	312	293	408	2030	2650	1020	256	380
8....	588	475	352	268	280	286	373	1970	2630	981	262	359
9....	615	475	352	345	300	293	366	2310	2230	926	238	366
10....	597	475	345	332	300	300	373	2810	1900	882	226	380
11....	579	468	345	326	293	332	359	3070	1960	850	256	373
12....	570	468	338	326	293	300	326	3150	2230	790	268	352
13....	554	468	286	326	256	262	338	3540	2550	730	244	422
14....	546	468	306	293	268	262	387	3060	3000	670	244	514
15....	530	468	319	232	332	293	475	2860	3020	642	244	498
16....	522	452	338	232	293	312	546	3070	2460	633	232	530
17....	522	422	338	326	244	332	546	3360	2600	642	226	562
18....	514	401	345	359	268	319	498	2650	2660	660	220	750
19....	506	380	274	256	319	326	554	2280	2510	633	256	970
20....	498	359	268	326	286	332	730	2320	2440	615	256	992
21....	498	380	326	394	262	338	926	2280	2270	562	280	915
22....	490	373	300	319	300	352	1070	1990	2310	530	326	1020
23....	475	373	326	293	293	380	1120	1980	2110	506	319	1040
24....	460	380	319	245	300	408	1270	2310	2020	468	345	1000
25....	460	380	326	255	286	445	1300	2580	1790	452	452	970
26....	482	373	332	280	300	475	1210	2700	1710	438	624	926
27....	490	380	268	330	300	490	1370	2930	1560	415	770	882
28....	482	373	250	350	306	490	1280	3060	1530	401	750	830
29....	468	366	256	338	319	438	1120	3520	1480	408	660	904
30....	468	359	359	338	....	401	530	3630	1420	394	579	959
31....	468	....	401	338	....	408	....	4120	....	373	530	....
Total	16588	12863	10175	9747	8548	10677	19953	77997	77190	23431	10731	19542
Mean.	535	429	328	314	295	344	665	2516	2573	756	346	651
Max..	615	490	401	394	332	490	1370	4120	4540	1460	770	1040
Min...	460	359	250	232	244	262	326	882	1420	373	220	352
Ac.-ft.	32900	25510	20180	19330	16950	21180	39580	154700	153100	46470	21280	38760

Total run-off for water year 1939-40=589,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Crystal River Near Redstone, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	116	124	102	91	66	62	130	699	1570	526	139	84
2....	120	124	99	90	51	62	139	776	1260	512	133	80
3....	120	130	96	91	66	66	162	809	1300	482	126	73
4....	120	123	102	91	72	66	177	899	1530	470	120	68
5....	118	116	102	93	70	60	208	1010	1810	466	113	74
6....	126	108	99	94	67	58	208	1010	1640	450	110	280
7....	135	97	97	97	67	64	191	752	1350	410	135	403
8....	164	105	99	96	67	66	188	685	1300	382	120	334
9....	153	113	99	91	68	66	208	792	1210	368	110	286
10....	151	113	99	90	64	66	183	1020	1010	350	104	216
11....	148	116	100	88	69	64	164	1140	1190	340	97	325
12....	144	115	99	90	70	62	159	1060	1230	325	93	350
13....	144	102	96	90	69	69	172	872	1490	307	88	268
14....	142	104	76	90	66	72	188	908	1610	289	87	214
15....	153	108	90	90	67	68	177	1130	1480	286	81	172
16....	157	112	100	84	67	76	169	1080	1260	268	79	142
17....	172	113	90	79	62	76	159	1020	1190	259	78	128
18....	164	112	88	79	63	75	151	1040	854	239	75	115
19....	155	112	93	79	70	76	162	1340	671	214	72	107
20....	142	112	91	78	67	87	166	1430	579	214	70	97
21....	139	110	94	76	66	97	214	1420	574	200	73	97
22....	137	108	94	78	63	110	289	1490	632	186	74	97
23....	131	104	94	76	64	130	358	1540	768	162	70	97
24....	128	87	81	61	68	135	334	1390	768	151	66	112
25....	128	110	84	62	66	137	298	1170	720	140	66	110
26....	120	87	88	63	66	151	289	1010	664	135	67	110
27....	112	93	80	70	63	151	328	1100	657	144	70	104
28....	108	94	82	74	62	135	450	1210	644	225	80	108
29....	105	90	84	73	....	126	584	1540	602	183	116	124
30....	105	100	82	69	....	120	632	1650	557	164	105	110
31....	108	....	88	69	....	121	....	1580	....	148	91	....
Total	4165	3242	2868	2542	1846	2774	7237	34572	32120	8995	2908	4885
Mean.	134	108	92.5	82.0	65.9	89.5	241	1115	1071	290	93.8	163
Max..	172	130	102	97	72	151	632	1650	1640	526	139	403
Min...	105	87	76	61	51	58	130	685	557	135	66	68
Acre-ft.	8260	6430	5690	5040	3660	5500	14350	68570	63710	17840	5770	9690

Total run-off for water year 1938-39=214,500 acre-feet.

Discharge of Crystal River Near Redstone, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	104	97	70	64	64	63	102	289	1650	450	93	100
2....	97	97	70	61	64	62	105	328	1760	400	91	115
3....	96	97	68	64	62	57	97	442	1620	378	86	104
4....	107	94	68	62	61	53	93	626	1520	361	83	90
5....	102	94	68	64	58	56	99	845	1370	344	79	76
6....	102	94	67	64	56	60	108	713	1150	319	78	70
7....	99	93	68	60	62	57	107	818	971	319	93	69
8....	100	91	68	57	55	58	102	800	962	310	83	66
9....	105	88	67	66	60	57	99	1020	713	280	76	86
10....	100	87	67	63	60	57	99	1280	620	262	75	99
11....	99	83	68	62	58	62	94	1350	800	244	76	87
12....	96	83	69	64	56	54	86	1340	1010	228	74	83
13....	93	83	67	61	50	53	88	1410	1180	214	72	108
14....	90	83	68	56	63	51	108	1290	1270	205	67	115
15....	88	80	66	46	61	54	142	1300	1270	202	64	107
16....	100	79	68	47	56	61	157	1370	1070	202	62	105
17....	110	79	68	58	50	66	142	1290	1100	216	58	121
18....	108	76	66	60	55	63	140	962	1160	200	57	274
19....	105	75	54	51	61	63	194	935	1110	177	78	322
20....	104	73	54	63	53	66	280	1010	980	159	87	337
21....	102	75	57	66	51	69	361	953	863	146	87	289
22....	102	74	55	54	56	78	414	752	836	142	94	347
23....	99	75	57	52	55	91	450	872	760	131	81	316
24....	99	75	58	50	55	107	499	1090	706	130	108	289
25....	97	74	58	54	54	124	470	1210	620	121	144	256
26....	110	73	58	59	56	130	462	1220	574	120	200	242
27....	108	72	47	60	58	128	499	1280	530	113	216	219
28....	100	72	50	61	61	124	446	1390	526	128	200	208
29....	99	72	60	58	63	105	378	1530	494	126	180	283
30....	97	69	66	61	....	96	325	1580	474	108	148	307
31....	97	....	70	66	....	97	....	1680	....	99	121	....
Total	3115	2457	1965	1834	1674	2322	6746	32975	29669	6834	3111	5290
Mean.	100	81.9	63.4	59.2	57.7	74.9	225	1064	989	220	100	176
Max..	110	97	70	66	64	130	499	1680	1760	450	216	347
Min...	88	69	47	46	50	51	86	289	474	99	57	66
Acre-ft.	6180	4870	3900	3640	3320	4610	13380	65400	58850	13560	6170	10490

Total run-off for water year 1939-40—194,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Divide Creek Below Willow Creek Near Raven, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.7	1.5	2.1	1.8	....	1.2	17	157	96	12	1.4	0.4
2....	0.7	1.6	1.4	1.8	....	1.2	26	157	84	9.4	0.8	0.4
3....	0.7	1.8	1.4	1.6	....	1.3	29	162	76	8.8	0.5	0.2
4....	0.6	1.9	2.1	1.5	....	1.3	31	169	78	6.4	0.3	0.1
5....	0.6	1.8	1.6	1.8	....	1.3	40	183	76	5.8	0.2	0.1
6....	0.8	1.7	1.4	1.7	....	1.3	38	183	65	3.6	0.4	0.9
7....	1.0	1.6	1.4	1.2	....	1.3	31	162	61	3.4	3.4	1.8
8....	1.2	3.0	2.1	1.2	....	1.4	31	159	56	3.4	1.1	1.0
9....	2.1	2.7	1.8	1.2	....	1.4	36	169	50	3.2	0.7	0.9
10....	2.3	2.5	1.7	1.0	....	1.4	31	176	51	3.0	0.4	0.6
11....	1.7	2.1	1.5	1.0	....	1.4	22	174	51	2.7	0.3	0.7
12....	1.6	2.1	1.5	1.4	....	1.5	31	157	51	2.3	0.2	1.2
13....	1.5	1.7	1.4	1.4	....	1.5	38	135	50	1.8	0.1	1.1
14....	1.4	1.6	1.5	1.0	....	1.6	36	140	49	1.5	0.1	0.7
15....	1.4	1.6	1.4	1.1	....	1.7	33	142	44	1.1	0.1	0.5
16....	1.5	1.7	1.9	1.4	....	1.8	28	159	41	0.9	0.1	0.4
17....	1.7	2.1	1.5	1.2	....	1.9	27	135	38	0.8	0.1	0.4
18....	1.6	2.7	1.2	1.2	....	2.5	30	130	36	0.7	0	0.3
19....	1.6	2.5	1.4	1.2	....	2.7	33	133	36	0.7	0	0.3
20....	2.1	3.0	1.5	1.2	....	2.9	36	128	32	0.5	0	0.2
21....	1.9	2.1	1.2	1.2	....	3.4	51	117	30	0.4	0	0.2
22....	1.7	1.8	1.2	1.2	....	4.2	75	108	27	0.3	0	0.2
23....	1.5	1.5	1.6	1.2	....	6.0	82	96	24	0.2	0	0.3
24....	1.5	1.0	1.7	1.2	....	10	71	82	21	0.2	0	0.3
25....	1.2	1.0	1.4	1.2	....	17	59	71	21	0.2	0	0.3
26....	1.1	1.2	1.4	1.2	....	16	64	82	19	0.2	0	0.3
27....	1.5	1.4	1.6	1.2	....	15	86	71	16	0.4	0	0.3
28....	1.8	1.4	1.8	1.2	....	14	124	64	16	0.7	0	0.5
29....	1.5	1.4	1.9	1.2	....	13	147	71	12	1.6	0	1.1
30....	1.5	1.5	2.1	1.2	....	12	152	73	12	1.2	0.1	0.9
31....	1.5	....	1.8	1.2	....	12	....	82	....	1.7	0.5	....
Total	43.5	55.5	49.5	40.1	33.6	155.2	1535	4027	1319	79.1	10.8	16.6
Mean.	1.40	1.85	1.60	1.29	1.2	5.01	51.2	130	44.0	2.55	0.35	0.55
Max..	2.3	3.0	2.1	1.8	....	17	152	183	96	12	3.4	1.8
Min...	0.6	1.0	1.2	1.0	....	1.2	17	64	12	0.2	0	0.1
Acre-ft.	86	110	98	80	67	308	3040	7990	2620	157	21	33

Total run-off for water year 1938-39=14,610 acre-feet.

Discharge of West Divide Creek, Below Willow Creek Near Raven, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.7	1.2	0.1	....	....	....	11	55	92	8.0	0	0
2....	.7	1.2	0	....	....	....	7.0	84	90	7.0	0	0
3....	.7	1.1	0	....	....	....	4.5	129	86	5.5	0	0
4....	.7	1.1	0	....	....	....	3.8	170	82	5.0	0	0
5....	.8	1.1	0	....	....	....	4.0	181	78	4.0	0	0
6....	.8	1.1	0	....	....	....	5.5	183	76	3.5	0	0
7....	.8	.9	0	....	....	....	4.5	168	64	3.3	0	0
8....	1.2	.8	0	....	....	....	3.8	176	60	2.7	0	0
9....	1.8	.9	0	....	....	....	3.8	186	52	2.6	0	0
10....	1.5	.7	0	....	....	....	3.6	176	46	2.6	0	0
11....	1.8	.8	0	....	....	....	2.9	178	44	2.6	0	0
12....	1.8	.8	0	....	....	Mar. 14	4.0	178	44	2.4	0	0
13....	1.6	.8	.1	....	....	to 31	8.0	186	44	2.1	0	0
14....	1.5	.7	.1	....	....	0.8	19	173	43	1.5	0	.3
15....	1.5	.7	.1	....	....	1.0	30	168	42	1.2	0	.4
16....	1.4	.1	.1	....	....	1.4	29	173	38	1.4	0	.2
17....	1.2	0	0	....	....	1.8	20	143	33	1.4	0	.3
18....	1.2	0	0	....	....	1.6	16	125	30	1.5	0	2.6
19....	1.6	0	0	....	....	1.8	28	121	26	1.2	0	2.1
20....	.7	0	0	....	....	2.0	43	112	25	.7	0	1.9
21....	.7	0	0	....	....	2.5	64	112	24	.6	0	1.8
22....	.7	0	0	....	....	4.0	67	99	20	.4	0	2.6
23....	.7	0	0	....	....	6.0	74	92	15	.2	0	1.9
24....	.7	0	0	....	....	8.0	86	94	13	.1	.1	1.8
25....	.8	0	0	....	....	10	99	84	11	.1	.7	1.2
26....	1.5	0	0	....	....	12	105	84	9.0	0	1.5	1.2
27....	1.4	0	0	....	....	10	103	84	8.0	0	.9	1.1
28....	.9	.1	0	....	....	8.0	80	94	6.5	0	.6	.9
29....	1.1	.1	0	....	....	7.0	62	101	5.5	.2	.3	1.8
30....	.9	.1	0	....	....	7.5	55	94	7.0	.2	.1	3.5
31....	1.2	....	0	....	....	9.8	....	90	....	.1	0	....
Total	34.6	14.3	.5	....	....	95.2	10464	4093	1214.0	62.1	4.2	25.6
Mean.	1.12	.48	.02	....	....	5.29	34.9	132	40.5	2.00	.14	.85
Max..	1.8	1.2	.1	....	....	12	105	186	92	8.0	1.5	3.5
Min...	.7	0	0	....	....	.8	2.9	55	5.5	0	0	0
Acre-ft.	69	28	1.0	....	....	189	2080	8120	2410	123	8.3	51

Total run-off for period=13,080 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Collbran, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	20	21	16	16	19	28	335	340	16	18	8.2
2....	14	21	20	16	14	19	36	362	225	19	15	7.2
3....	14	21	20	17	13	21	43	372	183	18	13	6.3
4....	14	22	20	16	14	18	49	362	189	17	12	6.0
5....	15	22	20	15	15	16	59	420	199	15	10	14
6....	20	24	19	17	15	17	55	478	164	14	13	51
7....	28	20	18	18	18	18	44	426	130	12	16	50
8....	32	23	18	17	21	18	50	438	113	15	11	20
9....	28	24	18	18	19	19	61	506	93	15	8.9	15
10....	30	22	18	18	17	20	55	576	83	15	8.6	13
11....	29	20	18	17	18	19	49	608	83	15	13	21
12....	30	20	18	16	17	20	56	520	78	14	8.6	23
13....	38	18	18	16	19	21	65	450	69	13	8.9	20
14....	39	18	18	17	19	22	57	464	61	14	7.2	16
15....	51	19	18	18	19	21	46	499	55	16	8.2	12
16....	44	20	18	18	20	22	41	414	43	16	6.3	10
17....	45	22	17	15	19	23	34	357	36	16	6.0	8.6
18....	32	21	18	16	19	24	37	438	33	15	5.8	6.6
19....	28	21	18	16	20	24	43	552	31	16	5.5	6.3
20....	25	20	16	16	19	25	44	506	30	15	5.5	6.3
21....	25	20	16	17	18	25	69	450	27	14	6.3	6.9
22....	25	19	16	19	19	27	122	408	24	13	6.0	6.6
23....	20	19	18	18	20	29	145	340	22	13	5.5	6.0
24....	19	17	18	17	21	30	122	263	24	9.6	6.0	6.3
25....	19	17	16	16	22	31	95	199	21	9.2	6.0	6.9
26....	20	18	16	17	22	31	88	175	19	11	6.3	7.8
27....	20	19	15	18	20	31	145	172	17	18	6.9	7.2
28....	20	20	16	18	19	27	225	169	17	23	8.6	8.6
29....	18	21	15	17	....	24	279	189	16	18	20	17
30....	19	21	15	18	....	23	322	215	15	15	11	10
31....	20	....	16	18	....	23	....	221	....	15	10	....
Total	795	609	546	526	512	707	2564	11884	2440	464.8	293.1	403.8
Mean.	25.6	20.3	17.6	17.0	18.3	22.8	85.5	383	81.3	15.0	9.45	13.5
Max..	51	24	21	19	22	31	322	608	340	23	20	51
Min...	14	17	15	15	13	16	28	169	15	9.2	5.5	6.0
Acre-ft.	1580	1210	1080	1040	1020	1400	5090	23570	4840	922	581	801

Total run-off for water year 1938-39=43,130 acre-feet.

Discharge of Plateau Creek Near Collbran, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.6	10	6.3	8.7	8.0	10	21	125	124	23	12	7.7
2....	7.8	10	6.3	8.5	8.0	9.6	19	163	115	25	10	7.5
3....	7.8	9.2	7.2	7.8	7.8	9.0	19	260	109	20	9.7	7.5
4....	8.2	9.6	6.9	7.5	7.3	10	16	414	93	19	9.4	7.7
5....	8.2	8.2	6.6	7.6	6.8	11	17	499	81	19	10	7.5
6....	10	9.2	6.6	7.2	7.4	9.0	19	584	81	20	9.4	7.3
7....	8.9	7.8	6.6	6.8	7.8	10	17	568	68	22	12	7.5
8....	9.2	7.8	6.9	6.6	7.4	11	17	584	59	21	9.4	7.7
9....	11	9.6	6.9	6.7	7.0	9.0	17	740	53	20	8.5	7.9
10....	9.6	7.5	6.6	6.9	7.8	10	17	780	46	19	9.1	7.9
11....	11	11	7.5	6.9	7.5	9.0	16	760	43	19	10	7.1
12....	10	10	6.6	6.8	6.8	8.0	16	740	37	18	9.1	6.5
13....	10	10	6.0	6.8	6.4	8.2	19	760	34	17	7.3	8.5
14....	9.6	9.6	6.4	7.1	9.2	8.4	35	700	32	16	6.9	12
15....	8.9	9.2	7.2	6.4	8.6	8.8	61	632	30	13	6.5	11
16....	8.6	8.6	7.5	5.3	8.2	9.0	59	592	28	12	7.1	8.8
17....	8.9	7.2	7.8	4.8	8.0	9.2	42	368	24	13	7.1	11
18....	8.6	6.6	7.5	4.9	9.2	9.2	41	357	22	13	7.1	107
19....	8.6	5.5	6.9	4.8	8.6	9.6	71	362	20	14	8.1	84
20....	7.8	5.2	7.2	5.0	8.0	11	99	294	19	12	11	42
21....	8.2	5.8	5.5	5.1	7.4	13	130	271	22	11	8.3	29
22....	7.8	7.2	5.8	5.0	8.0	15	158	252	21	11	9.4	36
23....	7.6	7.5	6.2	4.9	9.0	20	205	228	21	12	12	41
24....	7.8	7.8	6.4	5.6	10	25	267	208	18	15	15	66
25....	8.6	7.8	6.2	5.9	10	32	263	202	16	14	26	60
26....	10	7.5	5.6	6.0	11	37	286	186	15	13	21	29
27....	10	6.9	5.0	6.2	12	38	290	172	15	12	14	22
28....	10	7.8	4.7	6.8	12	29	212	164	14	16	9.7	24
29....	11	7.8	5.8	6.8	11	28	166	155	14	17	8.1	55
30....	10	6.6	7.5	7.1	....	18	135	140	21	18	7.9	70
31....	9.6	....	8.4	7.6	....	19	....	130	....	13	7.5	....
Total	282.1	244.5	204.6	200.1	246.2	463.0	2750	12390	1295	507	318.6	806.1
Mean.	9.10	8.15	6.60	6.45	8.49	14.9	917	400	43.2	16.4	10.3	26.9
Max..	11	11	8.4	8.7	12	38	290	780	124	25	26	107
Min...	7.8	5.2	4.7	4.8	6.4	8.0	16	125	14	11	6.5	6.5
Acre-ft.	560	485	406	397	488	918	5450	24580	2570	1010	632	1600

Total run-off for water year 1939-40=39,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Cameo, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	82	109	122	82	88	64	191	640	425	41	33	28
2....	82	115	111	88	75	66	235	700	341	41	32	31
3....	86	115	109	88	78	70	291	724	244	43	32	28
4....	84	113	111	86	82	62	277	688	216	43	32	27
5....	90	120	106	90	84	58	345	748	232	41	32	39
6....	96	109	106	95	80	60	313	874	206	37	47	88
7....	104	94	104	105	84	60	241	790	165	39	47	136
8....	124	106	106	105	86	62	241	706	136	35	40	82
9....	122	129	104	105	84	62	288	790	120	31	33	54
10....	122	134	111	105	70	66	264	910	111	31	31	50
11....	122	126	120	100	74	92	228	982	100	28	27	64
12....	120	120	111	98	74	86	219	874	104	28	28	68
13....	122	96	100	96	78	106	257	712	94	27	28	86
14....	126	106	77	96	76	94	260	634	86	27	27	80
15....	124	111	80	95	76	77	216	736	75	26	27	61
16....	129	113	90	94	78	117	209	652	69	26	23	56
17....	136	117	100	93	66	143	173	550	54	26	25	56
18....	126	106	105	96	68	141	165	568	50	24	24	54
19....	120	109	108	98	68	146	188	724	57	25	22	50
20....	117	111	105	100	66	156	185	766	54	23	22	47
21....	115	111	98	105	64	170	216	658	50	24	23	47
22....	111	109	96	110	62	200	280	592	49	23	24	49
23....	111	106	90	110	62	216	358	539	46	22	23	45
24....	111	84	86	100	64	216	317	400	42	23	21	46
25....	109	86	78	90	68	209	260	298	39	21	20	46
26....	106	111	72	92	70	216	244	238	42	28	20	49
27....	106	115	75	96	68	235	288	225	41	27	21	47
28....	106	115	78	100	62	200	430	203	39	33	34	66
29....	104	122	78	98	....	188	562	200	40	37	39	69
30....	104	122	80	98	....	159	646	222	40	45	31	61
31....	106	....	80	96	....	159	....	248	....	42	28	....
Total	3423	3340	2997	3010	2055	3956	8387	18591	3367	967	896	1710
Mean.	110	111	96.7	97.1	73.4	128	280	600	112	31.2	28.9	57.0
Max..	136	134	122	110	88	235	646	982	425	43	47	136
Min...	82	84	72	82	62	58	165	200	39	21	20	27
Acre-ft.	6790	6620	5940	5970	4080	7850	16640	36870	6680	1920	1780	3390

Total run-off for water year 1938-39=104,500 acre-feet.

Discharge of Plateau Creek Near Cameo, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	54	59	58	78	68	96	150	341	142	35	18	25
2....	52	59	56	74	68	82	140	381	128	31	17	26
3....	53	60	58	68	68	80	102	544	120	30	18	26
4....	54	59	58	59	64	68	112	820	108	26	19	31
5....	56	60	58	62	62	77	122	964	95	26	19	27
6....	58	60	59	60	56	82	125	1010	86	23	19	26
7....	56	60	58	59	68	65	114	1100	86	22	20	27
8....	58	64	56	56	62	68	110	928	72	22	21	26
9....	59	68	60	59	60	72	108	1040	68	19	20	26
10....	60	67	60	58	64	72	110	1340	60	19	21	26
11....	59	59	59	59	62	79	95	1310	46	19	21	25
12....	60	62	58	62	58	62	84	1230	41	18	20	24
13....	59	64	46	64	52	52	91	1290	36	18	19	28
14....	58	64	56	52	75	53	132	1290	35	16	18	28
15....	58	62	53	48	74	59	206	1060	32	16	18	28
16....	58	59	56	41	59	72	227	1070	29	19	18	28
17....	52	56	58	42	59	77	170	802	28	21	16	29
18....	53	54	59	42	79	68	160	534	27	22	16	56
19....	54	54	45	38	70	70	191	580	25	22	19	132
20....	56	58	48	43	60	74	258	544	23	22	19	74
21....	50	60	51	44	58	74	317	435	26	22	19	62
22....	49	59	52	42	67	82	372	381	25	22	18	62
23....	50	59	54	41	68	93	390	325	22	22	22	72
24....	49	59	55	45	86	112	528	293	22	22	45	80
25....	50	59	53	49	84	128	628	254	21	20	45	58
26....	64	59	47	51	118	152	592	258	19	19	82	53
27....	67	68	44	53	106	185	736	240	20	20	40	50
28....	59	62	42	60	104	191	610	215	19	22	33	47
29....	60	64	44	59	110	148	490	203	20	23	31	91
30....	60	60	51	62	....	118	420	179	23	20	28	206
31....	59	....	70	65	....	120	....	158	....	19	25	....
Total	1744	1817	1682	1695	2089	2831	7890	21119	1504	677	764	1499
Mean.	56.3	60.6	54.3	54.7	72.0	91.3	263	681	50.1	21.8	24.6	50.0
Max..	67	68	70	78	118	191	736	1340	142	35	82	206
Min...	49	54	42	38	52	52	84	158	19	16	16	24
Acre-ft.	3460	3600	3340	3360	4140	5620	15650	41890	2980	1340	1520	2970

Total run-off for water year 1939-40=89,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Heiberger, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.0	3.4	....	....	....	....	30	239	110	2.4	0	0
2....	1.0	4.8	....	....	....	....	37	233	100	1.8	0	0
3....	1.0	5.1	....	....	....	....	46	215	68	1.8	0	0
4....	1.0	5.1	....	....	....	....	60	227	54	1.7	0	0
5....	1.2	4.2	....	....	....	....	71	257	50	1.4	0	0
6....	1.4	3.9	....	....	....	....	55	269	45	1.3	0	0
7....	1.9	4.4	....	....	....	....	37	210	38	1.3	0	0
8....	3.7	4.6	....	....	....	....	43	174	28	1.0	0	0
9....	5.3	5.5	....	....	....	....	62	202	21	0.8	0	0
10....	3.7	5.5	....	....	....	....	41	221	19	0.4	0	0
11....	3.9	5.3	....	....	....	....	27	215	15	0.2	0	0
12....	4.2	5.3	....	....	....	....	33	191	14	0.2	0	0
13....	3.9	5.3	....	....	....	....	68	145	13	0.2	0	0
14....	4.2	5.5	....	....	....	....	52	138	10	0.2	0	0
15....	4.6	....	....	....	....	....	28	150	7.4	0.1	0	0
16....	4.4	....	....	....	....	....	17	150	6.0	0	0	0
17....	3.5	....	....	....	....	....	14	150	4.5	0	0	0
18....	3.7	....	....	....	....	....	19	152	3.9	0	0	0
19....	3.2	....	....	....	....	....	22	152	3.1	0	0	0
20....	3.1	....	....	....	....	....	30	150	3.2	0	0	0
21....	2.7	....	....	....	....	Mar. 23	75	140	3.6	0	0	0
22....	2.9	....	....	....	....	to 31	115	135	3.8	0	0	0
23....	3.1	....	....	....	....	14	122	120	4.1	0	0	0
24....	2.6	....	....	....	....	15	102	90	2.7	0	0	0
25....	2.6	....	....	....	....	32	82	76	3.1	0	0	0
26....	2.3	....	....	....	....	30	92	58	3.7	0	0	0
27....	2.4	....	....	....	....	27	134	56	3.5	0	0	0
28....	2.4	....	....	....	....	25	183	50	3.3	0	0	0
29....	2.9	....	....	....	....	18	221	47	3.0	0	0	0
30....	2.7	Nov. 1	....	....	....	19	242	47	2.6	0	0	0
31....	2.7	to 14	....	....	....	22	....	52	....	0	0	....
Total	89.2	67.9	....	....	....	202	2160	4711	646.5	14.8	0	0
Mean.	2.88	4.85	....	....	....	22.4	72.0	152	21.6	0.48	0	0
Max..	5.3	5.5	....	....	....	32	242	269	110	2.4	0	0
Min...	1.0	3.4	....	....	....	14	14	47	2.6	0	0	0
Acre-ft.	177	135	....	....	....	401	4280	9340	1280	29	0	0

Total run-off for period—15,642 acre-feet.

Discharge of Buzzard Creek Near Heiberger, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	1.4	.7	....	....	....	16	46	23	.7	0	0
2....	0	1.4	.6	....	....	....	12	64	20	.6	0	0
3....	0	1.4	.6	....	....	....	13	117	18	1.1	0	0
4....	0	1.2	.5	....	....	....	12	178	18	1.0	0	0
5....	0	1.3	.4	....	....	....	13	196	16	.6	0	0
6....	0	1.2	.4	....	....	....	16	171	15	.4	0	0
7....	0	1.2	.4	....	....	....	13	157	16	.2	0	0
8....	0	1.1	.5	....	....	....	13	107	13	.1	0	0
9....	0	1.3	.6	....	....	....	14	120	10	.1	0	0
10....	0	1.1	.7	....	....	....	12	138	8.1	.1	0	0
11....	0	1.0	.9	....	....	....	9.7	136	6.3	.1	0	0
12....	0	1.0	.9	....	....	....	9.7	120	5.5	.1	0	0
13....	0	1.0	.7	....	....	....	15	120	4.7	0	0	0
14....	0	1.1	.6	....	....	Mar. 16	31	151	3.8	0	0	0
15....	0	1.0	.8	....	....	to 31	44	153	4.5	0	0	0
16....	0	.8	.2	....	....	2.1	37	160	5.0	0	0	0
17....	0	.7	.1	....	....	2.1	33	117	6.3	.1	0	0
18....	0	.6	0	....	....	2.1	28	85	3.9	0	0	0
19....	0	.5	0	....	....	2.1	41	81	2.7	0	0	0
20....	0	.5	0	....	....	2.1	60	74	2.1	0	0	0
21....	0	.5	.1	....	....	2.2	74	70	1.8	0	0	0
22....	0	.5	.1	....	....	2.3	78	59	2.2	0	0	.5
23....	0	.5	.1	....	....	2.3	82	47	3.1	0	0	2.1
24....	0	.4	.1	....	....	2.3	107	41	2.9	0	0	3.5
25....	0	.5	0	....	....	2.3	144	48	2.2	0	0	1.7
26....	.4	.6	0	....	....	2.4	136	36	1.6	0	0	1.1
27....	2.6	.7	0	....	....	2.4	132	38	1.2	0	0	.6
28....	2.6	.7	0	....	....	2.4	83	34	.8	0	0	.5
29....	2.4	.7	0	....	....	2.6	63	28	.5	0	0	.9
30....	1.6	.6	0	....	....	2.6	52	25	.5	0	0	3.8
31....	1.4	....	0	....	....	4.5	....	25	....	0	0	....
Total	11.0	26.5	10.0	....	....	38.8	1393.4	2942	218.7	5.2	0	14.7
Mean.	.35	.88	.32	....	....	2.42	46.4	94.9	7.29	.17	0	.49
Max..	2.6	1.4	.9	....	....	4.5	144	196	23	1.1	0	3.8
Min...	0	.4	0	....	....	2.1	9.7	25	.5	0	0	0
Acre-ft.	22	53	20	....	....	77	2760	5840	434	10	0	29

Total run-off for period—9,245 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Collbran, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.5	7.7	4.9	5.2	5.0	5.4	90	235	129	2.8	1.2	1.0
2....	4.5	7.7	5.6	5.2	4.2	5.0	116	248	116	2.3	1.1	0.9
3....	5.0	7.7	5.6	5.6	4.9	5.6	137	226	71	2.3	1.1	0.9
4....	5.6	7.7	5.8	5.8	5.6	5.8	168	222	57	2.2	1.3	0.9
5....	6.4	7.9	6.0	5.4	5.8	5.0	177	240	52	1.9	1.4	0.9
6....	6.4	6.2	6.2	5.8	5.6	6.4	118	267	47	1.7	1.6	1.1
7....	6.4	6.4	6.4	5.6	6.0	7.4	85	228	39	1.8	2.3	1.1
8....	7.7	6.8	6.4	5.6	5.2	8.0	106	188	30	1.3	1.5	1.1
9....	9.2	7.6	6.4	5.8	5.4	9.0	118	203	23	1.2	1.4	0.8
10....	7.2	7.6	6.4	5.6	5.0	9.2	85	219	20	1.2	1.4	0.8
11....	6.8	7.0	6.6	5.6	5.4	9.8	66	213	15	0.9	1.4	1.0
12....	6.8	6.8	6.6	5.8	5.0	11	76	194	15	0.8	1.4	1.3
13....	7.0	6.8	6.0	5.6	5.6	11	107	164	13	0.8	1.3	1.3
14....	7.2	7.0	5.0	5.8	5.4	12	99	144	11	0.6	1.2	1.2
15....	7.0	7.2	5.4	5.2	5.6	13	67	160	8.4	0.6	1.2	1.0
16....	7.2	7.2	5.8	5.8	5.4	13	61	160	6.4	0.7	1.1	0.8
17....	7.7	7.7	5.4	5.4	4.7	14	46	153	5.0	0.8	1.0	0.7
18....	7.2	7.4	5.2	5.5	5.0	15	48	152	4.5	0.8	1.0	0.7
19....	7.0	7.4	5.4	5.8	5.8	15	61	164	3.4	0.9	0.9	0.6
20....	7.0	6.8	5.2	5.6	5.0	16	60	161	3.8	0.8	0.9	0.5
21....	7.2	6.4	5.8	6.2	5.0	19	89	145	4.1	0.8	1.0	0.7
22....	7.4	6.0	5.8	5.6	5.0	25	134	139	4.3	0.7	1.0	0.9
23....	7.9	5.6	5.2	6.2	5.2	30	158	136	4.7	0.8	0.9	1.0
24....	7.9	5.0	4.8	4.7	5.4	39	139	100	3.0	0.8	0.9	1.0
25.. ..	7.7	4.5	4.6	4.7	5.4	50	113	79	3.4	0.8	0.9	1.1
26....	7.7	4.5	5.2	4.9	5.8	48	124	61	4.3	0.8	0.9	1.1
27....	7.7	4.5	5.0	5.2	5.6	46	147	58	4.1	0.8	1.0	1.1
28....	7.7	4.5	5.2	5.4	5.2	44	204	53	3.8	1.7	1.2	1.4
29....	7.7	4.7	5.0	5.8	....	42	223	48	3.6	1.9	1.2	1.5
30....	7.7	4.7	5.0	5.6	....	48	248	50	3.3	1.8	1.2	1.5
31....	7.7	....	5.2	6.0	....	57	....	63	....	1.5	1.2	....
Total	217.1	195	173.1	172.0	148.2	644.6	3480	4873	708.1	38.8	37.1	29.9
Mean.	7.00	6.50	5.58	5.55	5.29	20.8	116	157	23.6	1.25	1.20	1.00
Max..	9.2	7.9	6.6	6.2	6.0	57	248	267	129	2.8	2.3	1.5
Min...	3.5	4.5	4.6	4.7	4.2	5.0	46	48	3.0	0.6	0.9	0.5
Acre-ft.	431	387	343	341	294	1280	6900	9670	1400	77	74	59

Total run-off for water year 1938-39=21,260 acre-feet.

Discharge of Buzzard Creek Near Collbran, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.2	2.9	0.9	0.8	1.2	3.4	71	107	20	1.6	0.5	0.4
2....	1.1	2.8	.9	.8	1.3	4.1	48	123	19	1.6	.5	.4
3....	1.1	2.6	.8	.8	1.3	4.6	29	171	18	1.2	.4	.4
4....	1.2	2.6	.8	.8	1.2	5.8	32	248	15	1.2	.4	.4
5....	1.2	2.6	.9	.9	1.2	5.0	54	280	14	1.2	.4	.4
6....	1.4	2.5	.9	.9	1.1	4.1	56	271	12	1.1	.4	.4
7....	1.2	2.2	.8	.9	1.3	5.0	42	276	13	1.0	.4	.5
8....	1.4	1.9	.8	.8	1.2	3.1	40	240	11	1.1	.4	.4
9....	1.6	2.4	.8	.8	1.2	5.0	41	233	9.8	1.0	.4	.4
10....	1.6	2.1	.9	.8	1.2	3.2	43	262	8.6	1.1	.5	.4
11....	1.5	2.1	.7	.8	1.1	2.9	23	251	7.0	1.1	.5	.4
12....	1.5	1.8	.6	.8	1.0	3.2	19	239	4.1	1.1	.4	.4
13....	1.5	1.8	.7	.9	1.0	3.2	32	215	2.9	1.0	.5	.5
14....	1.5	1.7	.8	.9	1.6	3.2	88	237	2.8	1.1	.4	.4
15....	1.5	1.9	1.0	.7	1.6	3.7	109	201	2.5	1.5	.4	.5
16....	1.5	1.7	1.1	.6	1.3	4.4	110	206	2.4	1.5	.4	.5
17....	1.5	1.7	1.4	.6	1.3	4.6	74	184	2.2	1.5	.4	.6
18....	1.6	1.7	1.2	.6	2.0	6.2	71	136	2.1	1.4	.4	.6
19....	1.6	1.6	1.1	.6	1.9	6.2	78	126	1.7	1.5	.4	.6
20....	1.4	.9	.9	.7	1.8	6.2	113	123	1.7	1.4	.5	.6
21....	1.4	.9	.8	.7	1.7	8.0	158	106	1.7	1.4	.5	.6
22....	1.5	.9	.8	.7	2.0	14	163	96	1.5	1.4	.4	.6
23....	1.5	1.4	.8	.7	2.3	18	156	75	1.4	1.2	.6	.6
24....	1.6	1.0	.8	.8	2.7	34	187	62	1.4	1.2	.6	.6
25....	1.7	.9	.7	.8	3.2	44	269	68	1.4	1.1	.6	1.0
26....	2.4	1.0	.7	.9	3.2	68	224	55	1.2	1.0	.8	1.0
27....	2.9	1.0	.7	.9	3.7	85	233	54	1.2	1.1	.6	.6
28....	3.1	.9	.6	1.0	3.7	63	182	41	1.2	1.1	.5	.8
29....	2.9	1.0	.6	1.0	3.4	43	148	32	1.0	.6	.4	2.9
30....	2.9	.8	.6	1.1	....	28	132	25	1.6	.6	.4	14
31....	2.9	....	.7	1.2	....	71	....	22	....	.6	.4	....
Total	52.9	51.3	25.8	25.3	52.7	563.1	3025	4765	183.4	36.5	14.4	31.9
Mean.	1.71	1.71	.83	.82	1.82	18.2	101	154	6.11	1.18	.46	1.06
Max..	3.1	2.9	1.4	1.2	3.7	85	269	280	20	1.6	.8	14
Min...	1.1	.8	.6	.6	1.0	2.9	19	22	1.0	.6	.4	.4
Acre-ft.	105	102	51	50	105	1120	6000	9450	364	72	29	63

Total run-off for water year 1939-40=17,510 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River Below Taylor Park Reservoir, for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	52	25	25	25	25	25	38	25	781	244	565	635
2....	52	25	25	25	25	25	38	25	726	235	565	645
3....	52	25	25	25	25	25	38	25	676	232	570	660
4....	52	25	25	25	25	25	47	25	693	226	570	720
5....	52	25	25	25	25	25	47	25	737	220	570	754
6....	52	25	25	25	25	25	47	25	737	210	570	748
7....	52	25	25	25	25	25	60	25	645	195	520	737
8....	52	25	25	25	25	25	60	25	580	170	501	600
9....	52	25	25	25	25	25	60	25	540	165	501	506
10....	52	73	25	25	25	25	73	25	501	172	441	449
11....	25	125	25	25	25	25	73	25	501	545	461	433
12....	25	57	25	25	25	25	73	25	492	545	501	433
13....	25	25	25	25	25	25	80	25	506	560	510	433
14....	25	25	25	25	25	25	80	25	520	645	540	284
15....	25	25	25	25	25	25	80	25	510	693	560	241
16....	25	25	25	25	25	25	80	25	483	688	560	170
17....	25	25	25	25	25	25	80	25	449	560	585	117
18....	25	25	25	25	25	25	80	25	417	620	605	135
19....	25	25	25	25	25	25	95	25	374	570	640	123
20....	25	25	25	25	25	25	75	25	340	660	655	123
21....	25	25	25	25	25	25	25	25	315	792	655	127
22....	25	25	25	25	25	25	25	25	301	814	655	101
23....	25	25	25	25	25	25	25	38	290	808	655	192
24....	25	25	25	25	25	25	25	38	290	808	655	304
25....	25	25	25	25	25	25	25	47	294	808	655	354
26....	25	25	25	25	25	25	25	170	287	770	655	401
27....	25	25	25	25	25	25	25	346	274	693	655	401
28....	25	25	25	25	25	25	25	470	265	605	655	401
29....	25	25	25	25	....	33	25	625	259	565	655	340
30....	25	25	25	25	....	33	25	770	256	565	625	301
31....	25	....	25	25	....	33	....	764	....	565	610	....
Total	1045	930	775	775	700	799	1554	3818	14039	15948	18120	11868
Mean.	33.7	31.0	25.0	25.0	25.0	25.8	51.8	123	468	514	585	396
Max..	52	125	25	25	25	33	95	770	781	814	655	754
Min...	25	25	25	25	25	25	25	25	256	165	441	101
Acre-ft.	2070	1840	1540	1540	1390	1580	3080	7570	27850	31630	35940	23540

Total run-off for water year 1938-39=139,600 acre-feet.

Discharge of Taylor River Below Taylor Park Reservoir for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	312	25	10	20	20	14	14	0	0	0	590	570
2....	315	25	10	20	20	14	14	0	0	0	595	555
3....	682	25	10	20	20	14	14	0	0	0	610	550
4....	160	25	10	20	20	14	14	0	0	202	620	550
5....	125	25	10	20	20	14	14	0	0	385	640	550
6....	182	25	10	20	20	14	14	0	0	496	682	530
7....	215	25	10	20	20	14	14	0	0	545	630	545
8....	215	25	10	20	20	14	14	0	0	570	565	550
9....	218	25	10	20	20	14	14	0	0	595	590	540
10....	212	25	10	20	20	14	14	0	0	650	600	530
11....	210	25	10	20	20	14	14	0	0	676	575	580
12....	208	25	10	20	20	14	71	0	0	676	590	650
13....	208	25	10	20	20	14	99	0	0	676	620	635
14....	208	25	10	20	20	14	99	0	0	660	630	590
15....	208	25	10	20	20	14	99	0	0	682	660	506
16....	208	25	10	20	20	14	44	0	0	666	660	465
17....	208	25	10	20	20	14	10	0	0	615	645	277
18....	208	25	10	20	20	14	10	0	0	535	565	196
19....	208	25	10	20	20	14	10	0	0	515	21	150
20....	208	25	10	20	20	14	10	0	0	600	635	84
21....	210	20	10	20	20	14	10	0	0	666	630	74
22....	210	20	10	20	20	14	10	0	0	682	580	86
23....	210	20	10	20	20	14	10	0	0	650	585	82
24....	226	20	10	20	20	14	10	0	0	655	580	66
25....	265	20	10	20	20	14	10	0	0	655	555	64
26....	250	20	10	20	20	14	10	0	0	660	445	59
27....	250	20	10	20	20	14	10	0	0	671	265	57
28....	250	20	10	20	20	14	10	0	0	635	210	57
29....	250	20	10	20	20	14	10	0	0	615	346	57
30....	150	15	10	20	....	14	10	0	0	610	501	57
31....	27	....	10	20	....	14	....	0	....	580	570	....
Total	7016	695	310	620	580	434	706	0	0	16823	16990	10262
Mean.	226	23.2	10	20	20	14	23.5	0	0	543	548	342
Max..	682	25	10	20	20	14	99	0	0	682	682	650
Min...	27	15	10	20	20	14	10	0	0	0	21	57
Ac.-ft.	13920	1380	615	1230	1150	861	1400	0	0	33370	33700	20350

Total run-off for water year 1939-40=108,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River at Almont, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	137	100	82	56	56	66	90	272	1160	368	648	672
2....	130	106	78	58	54	66	109	300	1080	362	648	688
3....	124	100	86	62	52	66	118	285	996	357	640	712
4....	121	100	95	58	54	74	127	276	1030	340	633	752
5....	118	100	88	56	52	70	148	305	1080	330	633	792
6....	134	86	83	60	54	68	144	315	1050	310	648	792
7....	182	72	86	58	60	68	140	280	936	300	633	800
8....	193	112	88	58	58	74	158	254	856	290	591	720
9....	154	118	88	58	56	76	168	280	800	280	584	584
10....	144	121	88	58	56	74	165	225	760	272	524	544
11....	137	208	86	54	58	74	172	340	752	557	524	524
12....	121	193	81	56	56	95	168	340	752	640	577	518
13....	118	109	74	58	56	81	179	315	760	664	577	512
14....	121	90	72	58	60	76	193	340	768	720	612	406
15....	121	98	74	56	66	81	186	346	752	776	640	300
16....	127	115	80	58	62	69	176	335	712	776	633	285
17....	124	118	72	50	56	72	165	325	672	640	648	165
18....	112	98	76	54	58	80	162	362	633	696	664	193
19....	93	124	76	56	61	86	176	401	564	656	712	182
20....	95	124	80	54	68	81	204	434	512	720	728	176
21....	93	115	82	58	64	83	154	434	469	848	728	182
22....	93	103	80	60	58	103	196	469	434	864	720	165
23....	93	76	74	56	62	124	212	463	428	864	720	200
24....	93	81	72	47	64	121	158	428	428	856	720	362
25....	90	86	66	45	64	106	148	396	423	856	712	406
26....	90	82	72	44	68	106	165	423	418	816	712	469
27....	93	74	64	50	74	100	190	619	412	768	704	463
28....	95	74	60	56	64	90	224	784	406	704	712	463
29....	95	74	58	56	....	88	240	960	396	656	712	412
30....	98	80	58	54	....	81	258	1110	384	680	688	362
31....	95	....	56	58	....	83	....	1120	....	664	664	....
Total	3634	3137	2375	1720	1671	2582	5093	13536	20823	18630	20289	13801
Mean.	117	105	76.6	55.5	59.7	83.3	170	437	694	601	654	460
Max..	193	208	95	62	74	124	258	1120	1160	864	728	800
Min...	90	72	56	44	52	66	90	225	384	272	524	165
Acre-ft.	7210	6220	4710	3410	3310	5120	10100	26850	41300	36950	40240	27370

Total run-off for water year 1938-39=212,800 acre-feet.

Discharge of Taylor River at Almont, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	368	86	74	52	51	49	56	63	196	65	648	584
2....	368	83	74	52	52	48	56	74	193	58	648	584
3....	752	81	72	52	50	48	50	95	186	58	656	577
4....	240	78	65	53	48	49	49	124	172	136	664	570
5....	179	78	65	53	44	49	52	118	158	396	680	564
6....	208	83	61	52	43	48	54	88	144	505	728	564
7....	267	78	49	50	46	47	50	98	130	564	712	564
8....	262	76	50	45	48	49	50	83	118	584	626	564
9....	267	81	58	49	47	50	50	88	115	605	619	557
10....	258	76	61	51	47	49	50	124	109	633	633	550
11....	249	76	58	52	47	47	47	144	103	696	619	570
12....	249	78	54	48	47	50	56	148	100	704	633	672
13....	249	78	49	43	45	54	151	137	98	720	656	680
14....	249	78	47	38	45	50	158	140	100	712	672	619
15....	244	78	48	35	48	48	168	148	106	728	704	564
16....	244	76	49	35	46	48	144	168	93	744	712	518
17....	249	78	47	39	45	49	67	168	103	696	696	401
18....	249	76	45	40	47	45	76	137	98	688	696	262
19....	249	76	45	37	49	45	95	118	95	612	163	240
20....	249	78	45	40	48	45	115	118	93	648	594	151
21....	249	72	47	41	46	47	121	130	93	736	648	124
22....	249	72	48	39	48	49	112	121	90	776	598	134
23....	249	78	49	37	49	50	109	109	83	752	605	162
24....	254	83	49	42	48	43	112	121	81	720	598	144
25....	310	74	48	45	48	49	103	127	78	720	591	137
26....	310	74	46	46	49	52	106	137	72	752	505	134
27....	305	81	43	49	48	52	106	168	69	752	362	124
28....	300	72	39	46	48	52	88	165	55	720	244	121
29....	315	74	41	46	48	49	81	172	61	688	335	124
30....	285	74	44	47	....	49	76	172	63	688	524	127
31....	93	....	50	48	....	52	....	190	....	664	584	....
Total	8568	2326	1620	1402	1375	1511	2608	3993	3265	18520	18353	11686
Mean.	276	77.5	52.3	45.2	47.4	48.7	86.9	129	109	597	592	390
Max..	752	86	74	53	52	54	168	190	196	776	728	680
Min...	93	72	39	35	43	43	47	63	61	58	163	121
Ac.-ft.	16990	4610	3210	2780	2730	3000	5170	7920	6480	36730	36400	23180

Total run-off for water year 1939-40=149,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East River at Almont, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	91	105	72	54	52	62	150	976	1230	340	122	96
2....	90	112	70	56	52	62	147	1080	984	331	112	91
3....	93	107	76	58	50	62	157	976	968	314	107	86
4....	91	107	78	56	52	64	182	1050	1070	292	110	83
5....	91	114	78	54	50	60	201	1210	1160	272	122	85
6....	100	101	80	58	52	60	204	1180	1060	249	144	105
7....	124	98	86	60	56	60	188	968	871	224	204	207
8....	142	98	78	58	54	62	210	885	817	210	207	207
9....	128	110	75	60	52	64	256	952	759	188	210	217
10....	116	116	82	58	52	62	252	1120	680	177	182	171
11....	116	112	80	58	54	64	238	1170	728	177	160	204
12....	124	105	80	58	52	68	238	1120	692	157	147	210
13....	128	90	78	60	56	72	260	968	753	147	150	198
14....	132	101	68	60	58	72	292	1020	810	147	155	174
15....	132	101	70	58	60	64	260	1110	778	139	147	157
16....	137	112	72	58	58	63	256	1060	704	139	137	147
17....	132	105	68	54	56	58	214	1020	680	134	124	122
18....	130	93	70	56	56	58	220	1060	558	128	120	82
19....	124	105	72	58	58	61	260	1130	479	116	114	75
20....	122	100	74	56	60	64	280	1300	411	110	114	77
21....	118	96	76	60	58	70	349	1300	386	105	116	75
22....	114	91	74	60	54	83	447	1390	377	98	105	78
23....	110	74	70	58	58	122	540	1450	406	91	101	78
24....	110	78	64	48	60	139	468	1300	406	91	101	80
25....	105	76	62	46	62	144	416	1140	401	91	101	83
26....	94	72	64	48	64	144	436	992	391	91	93	90
27....	94	68	60	50	64	144	524	968	363	100	86	86
28....	90	68	58	54	62	132	645	1050	358	122	86	90
29....	91	66	56	52	....	134	810	1280	354	137	101	122
30....	100	70	54	52	....	126	885	1400	349	139	105	116
31....	100	....	54	54	....	134	....	1270	....	134	98	....
Total	3469	2851	2199	1730	1572	2634	9985	34895	19983	5190	3981	3692
Mean.	112	95.0	70.9	55.8	56.1	85.0	333	1126	666	167	128	123
Max..	142	116	86	60	64	144	885	1450	1230	340	210	217
Min...	90	66	54	46	50	58	147	885	349	91	86	75
Acre-ft.	6880	5650	4360	3430	3120	5220	19800	69210	39640	10290	7900	7320

Total run-off for water year 1938-39=182,800 acre-feet.

Discharge of East River at Almont, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	108	92	69	34	24	46	75	248	1020	260	79	84
2....	92	90	67	34	25	45	73	256	975	224	79	78
3....	92	94	66	34	24	45	69	350	940	208	78	78
4....	94	90	65	33	24	46	65	560	846	181	78	76
5....	98	90	65	33	23	48	70	645	786	172	78	73
6....	100	98	60	32	22	46	70	580	732	155	79	72
7....	102	90	60	30	22	43	75	708	640	150	100	70
8....	102	87	57	28	23	46	75	714	630	143	143	68
9....	102	89	56	29	23	49	78	834	540	126	138	58
10....	102	79	55	29	23	46	73	1010	460	119	124	32
11....	102	78	52	29	24	45	65	1090	450	119	129	24
12....	104	78	50	28	25	40	62	1110	500	112	131	25
13....	102	76	49	24	23	45	72	1080	550	110	114	34
14....	98	75	47	22	22	44	89	926	615	110	112	73
15....	98	73	48	20	26	45	141	905	615	108	122	72
16....	98	72	49	20	29	45	155	996	550	102	119	72
17....	98	68	47	21	27	48	131	1130	570	100	114	76
18....	98	69	45	22	27	43	150	884	550	94	106	86
19....	98	70	44	21	31	44	228	774	505	100	104	141
20....	98	66	43	21	34	43	355	798	495	98	110	131
21....	96	65	43	21	32	48	470	792	495	94	106	119
22....	96	66	44	22	31	50	510	690	505	92	104	148
23....	90	69	44	22	31	52	505	675	455	94	106	117
24....	81	71	45	22	37	57	560	732	415	92	117	78
25....	79	72	41	23	33	62	495	816	365	90	114	78
26....	82	73	37	23	35	72	495	864	336	89	129	76
27....	89	75	33	23	43	73	575	884	300	90	136	69
28....	86	70	30	22	44	66	500	891	276	89	122	70
29....	89	68	31	22	45	65	415	926	260	86	114	76
30....	86	66	32	23	....	65	332	898	256	82	106	86
31....	89	....	33	23	....	73	....	996	....	79	100	....
Total	2949	2319	1507	790	832	1585	7028	24762	16632	3768	3391	2340
Mean.	95.1	77.3	48.6	25.5	28.7	51.1	234	799	554	122	109	78.0
Max..	108	98	69	34	45	73	575	1130	1020	260	143	148
Min...	79	65	30	20	22	40	62	248	256	79	78	24
Acre-ft.	5850	4600	2990	1570	1650	3140	13940	49110	32990	7470	6730	4640

Total run-off for water year 1939-40=134,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tomichi Creek at Sargents, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	29	33	36	26	27	18	62	222	191	37	26	21
2....	29	34	34	27	24	17	75	233	167	33	26	22
3....	31	35	34	28	24	17	90	233	160	33	25	19
4....	31	42	36	28	25	16	88	233	155	31	25	16
5....	29	40	36	27	26	16	88	241	152	28	24	18
6....	35	31	34	27	24	16	86	244	140	28	26	21
7....	74	27	34	26	26	17	84	233	126	27	33	22
8....	74	42	34	27	27	16	80	228	116	25	27	22
9....	50	52	36	25	27	16	84	238	110	25	25	23
10....	48	42	36	24	25	17	90	263	105	24	24	23
11....	45	44	34	23	25	17	88	249	103	22	22	25
12....	44	38	34	24	25	17	86	246	94	23	21	23
13....	42	32	29	25	24	18	92	233	82	21	20	22
14....	44	29	26	24	24	18	86	233	76	22	20	21
15....	45	32	28	23	25	17	82	238	68	35	20	22
16....	45	34	28	23	25	18	76	244	61	38	20	20
17....	45	36	27	25	22	19	72	225	59	31	19	19
18....	39	34	25	27	22	20	66	233	58	28	17	18
19....	39	32	28	26	23	22	68	260	58	27	16	18
20....	35	32	30	26	24	24	71	249	58	26	17	18
21....	37	34	32	24	22	28	86	241	54	25	18	18
22....	35	32	30	25	18	34	128	258	48	23	19	18
23....	34	30	28	25	18	40	136	249	45	20	17	18
24....	33	29	26	24	18	50	131	238	46	16	17	17
25....	35	32	24	22	19	52	124	230	45	16	17	18
26....	34	36	25	23	19	50	133	204	44	18	21	20
27....	34	38	24	25	19	48	133	191	39	19	25	21
28....	34	38	23	27	18	44	152	184	38	22	26	20
29....	33	36	24	27	....	46	184	184	37	25	25	22
30....	33	36	24	26	....	44	209	189	42	38	23	21
31....	33	....	25	26	....	50	....	186	....	29	22	....
Total	1228	1062	924	785	645	842	3030	7132	2577	815	683	606
Mean.	39.6	35.4	29.8	25.3	23.0	27.2	101	230	85.9	26.3	22.0	20.2
Max..	74	52	36	28	27	52	209	263	191	38	33	25
Min...	29	27	23	22	18	16	62	184	37	16	16	16
Acre-ft.	2440	2110	1830	1560	1280	1670	6010	14150	5110	1620	1350	1200

Total run-off for water year 1938-39=40,330 acre-feet.

Discharge of Tomichi Creek at Sargents, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	20	27	32	21	18	19	46	52	87	27	15	14
2....	19	26	34	23	20	18	49	61	83	27	14	14
3....	18	25	34	23	20	18	51	70	79	24	13	15
4....	18	27	33	22	19	18	52	88	76	24	12	17
5....	18	28	33	20	17	17	47	96	76	27	11	15
6....	18	31	32	21	16	18	43	99	72	27	14	14
7....	19	27	31	21	17	17	35	112	58	23	22	15
8....	19	31	30	20	16	17	35	114	52	22	20	15
9....	19	29	29	19	16	19	34	121	51	21	16	15
10....	19	29	28	18	16	21	32	128	43	18	17	15
11....	19	27	28	19	17	22	32	138	42	15	17	17
12....	19	31	28	19	16	21	32	140	42	17	15	16
13....	19	32	28	18	15	20	40	124	42	17	14	17
14....	19	28	27	18	15	20	51	114	40	18	13	16
15....	18	26	27	17	16	21	52	119	40	18	13	15
16....	19	25	27	17	15	23	47	128	45	22	15	16
17....	22	25	27	18	14	24	38	138	45	21	14	20
18....	24	25	26	18	14	24	42	131	38	18	13	21
19....	25	25	25	19	16	24	54	110	34	18	15	21
20....	24	26	26	19	15	24	65	103	37	17	20	18
21....	24	26	25	17	14	26	72	138	32	16	22	19
22....	24	27	25	17	15	29	67	119	31	15	21	23
23....	24	28	25	18	16	31	61	101	28	15	21	21
24....	23	30	26	18	17	33	65	94	25	15	22	22
25....	23	29	26	18	16	35	56	94	21	18	23	22
26....	25	30	24	19	16	37	61	96	20	19	25	21
27....	24	32	22	20	17	41	65	96	21	20	23	20
28....	24	32	21	18	18	40	63	92	21	20	21	20
29....	27	30	20	16	19	39	61	92	20	16	21	21
30....	29	29	20	16	....	39	60	90	23	15	18	22
31....	29	....	20	17	....	43	....	88	....	15	15	....
Total	671	843	839	584	476	788	1508	3286	1324	605	535	537
Mean.	21.6	28.1	27.1	18.8	16.4	25.4	50.3	106	44.1	19.5	17.3	17.9
Max..	29	32	34	23	20	43	72	140	87	27	25	23
Min...	18	25	20	16	14	17	32	52	20	15	11	14
Acre-ft.	1330	1670	1660	1160	944	1560	2990	6520	2630	1200	1060	1070

Total run-off for water year 1939-40=23,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tomichi Creek at Gunnison, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	96	156	110	80	80	72	440	425	395	83	94	73
2....	86	163	100	85	68	66	540	435	390	80	98	80
3....	90	163	100	90	70	70	645	455	345	76	112	73
4....	89	170	115	95	78	66	640	460	325	74	114	68
5....	89	185	110	80	80	60	623	465	340	68	112	66
6....	111	150	110	90	72	62	596	470	325	60	112	66
7....	199	125	100	80	78	70	502	460	295	56	195	70
8....	302	130	105	85	80	60	455	435	266	56	227	80
9....	274	175	105	78	85	62	496	420	248	51	188	83
10....	204	160	105	72	72	66	535	445	199	45	153	76
11....	204	150	105	68	74	72	460	460	178	40	136	76
12....	167	156	100	72	76	72	425	440	174	39	125	74
13....	153	114	90	78	74	76	460	405	164	42	117	76
14....	150	109	76	76	74	85	475	370	167	43	114	73
15....	153	116	80	70	80	80	355	400	146	44	101	71
16....	160	126	85	68	78	89	280	445	112	44	94	73
17....	163	128	74	76	58	114	235	460	85	44	89	76
18....	160	121	66	95	56	125	215	440	70	43	85	63
19....	150	109	90	80	76	132	215	410	68	44	78	63
20....	146	121	100	80	74	156	231	440	68	42	76	62
21....	143	120	105	74	56	188	253	450	70	42	76	57
22....	143	105	100	76	50	276	305	475	68	43	78	59
23....	136	90	90	74	56	574	345	470	68	42	73	59
24....	134	85	76	68	66	1080	365	435	71	43	70	57
25....	134	105	68	66	72	1060	330	420	76	46	65	57
26....	131	110	74	68	76	897	305	390	94	47	68	59
27....	146	115	72	76	78	867	290	345	91	54	68	56
28....	156	115	70	90	68	640	300	325	89	60	83	56
29....	156	115	72	85	....	562	355	325	85	56	83	56
30....	153	115	74	80	....	425	410	345	80	56	85	52
31....	156	....	76	78	....	415	....	365	....	74	80	....
Total	4734	3902	2803	2433	2005	8639	12081	13085	5152	1637	3249	2004
Mean.	153	130	90.4	78.5	71.6	279	403	422	172	52.8	105	66.8
Max..	302	185	115	95	85	1080	645	475	395	83	227	83
Min...	86	85	66	66	50	60	215	325	68	39	65	52
Acre-ft.	9390	7740	5560	4830	3980	17140	23960	25950	10220	3250	6440	3970

Total run-off for water year 1938-39=122,430 acre-feet.

Discharge of Tomichi Creek at Gunnison, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	50	87	83	56	68	68	237	103	94	44	62	49
2....	47	87	83	59	76	68	224	94	94	46	61	47
3....	46	91	83	59	76	72	183	87	94	44	61	46
4....	45	94	85	65	72	72	158	78	89	46	58	46
5....	46	89	89	65	70	73	158	59	83	46	58	43
6....	45	98	89	65	68	73	164	55	83	46	62	41
7....	45	112	92	64	67	72	155	44	82	43	75	40
8....	46	103	94	58	68	72	140	31	72	44	80	38
9....	46	101	96	61	70	75	138	30	73	46	82	38
10....	51	101	91	61	68	78	135	34	72	47	78	38
11....	51	96	91	62	68	80	126	48	68	46	76	36
12....	48	101	92	64	68	82	116	59	64	43	72	31
13....	48	109	76	62	70	78	118	75	59	46	72	30
14....	52	103	68	60	68	80	132	83	59	46	70	30
15....	56	98	73	60	67	80	158	92	59	49	67	28
16....	59	89	78	58	67	78	170	109	59	51	67	26
17....	57	80	87	57	70	87	161	116	58	55	64	26
18....	57	87	89	60	70	91	143	152	61	56	62	27
19....	59	83	80	65	70	98	138	132	67	54	67	26
20....	60	80	72	64	68	109	132	111	68	49	70	27
21....	65	83	64	54	68	114	135	149	68	48	75	28
22....	65	83	62	56	67	138	140	203	68	51	67	29
23....	63	87	64	58	67	158	138	183	61	52	64	30
24....	65	87	62	61	67	173	135	135	55	52	65	32
25....	65	89	62	64	67	193	132	111	56	55	73	37
26....	73	89	62	64	67	230	129	98	58	55	78	38
27....	89	96	56	67	65	276	118	103	58	56	80	41
28....	83	96	52	64	65	269	114	89	51	61	78	41
29....	76	87	52	58	68	227	107	85	47	64	75	43
30....	76	83	55	61	....	213	103	89	47	70	65	46
31....	80	....	58	64	....	220	....	87	....	70	56	....
Total	1814	2769	2340	1896	1990	3797	4337	2924	2027	1581	2140	1078
Mean.	58.5	92.3	75.5	61.2	68.6	122	145	94.3	67.6	51	69.0	35.9
Max..	89	112	96	67	76	276	237	203	94	70	82	49
Min...	45	80	52	54	65	68	103	30	47	43	56	26
Acre-ft.	3600	5490	4640	3760	3950	7530	8600	5800	4020	3140	4240	2140

Total run-off for water year 1939-40=56,910 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Quartz Creek Near Ohio, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	37	69	....	....	....	....	42	147	144	51	36	26
2....	35	69	....	....	....	....	46	140	135	49	34	26
3....	38	56	....	....	....	....	52	137	130	46	29	24
4....	37	42	....	....	....	....	60	130	147	44	27	22
5....	39	40	....	....	....	....	67	144	154	44	28	21
6....	51	36	....	....	....	....	70	167	147	41	34	23
7....	67	24	....	....	....	....	60	130	123	40	43	21
8....	60	26	....	....	....	....	69	128	121	38	37	22
9....	50	28	....	....	....	....	72	149	115	37	33	21
10....	49	27	....	....	....	....	63	186	117	35	32	17
11....	48	26	....	....	....	....	56	175	115	34	32	21
12....	49	....	....	....	....	....	57	170	112	34	32	22
13....	54	....	....	....	....	....	62	157	115	33	32	23
14....	54	....	....	....	....	....	56	172	112	33	30	24
15....	49	....	....	....	....	Mar. 16	55	200	104	33	30	24
16....	56	....	....	....	....	to 31	50	197	92	31	33	24
17....	56	....	....	....	....	28	39	188	79	30	33	24
18....	54	....	....	....	....	29	42	188	74	29	31	23
19....	52	....	....	....	....	24	48	208	70	30	30	22
20....	48	....	....	....	....	27	50	222	66	26	30	22
21....	51	....	....	....	....	30	62	228	64	28	30	21
22....	55	....	....	....	....	35	79	236	60	29	30	21
23....	54	....	....	....	....	37	86	233	59	29	31	21
24....	51	....	....	....	....	35	75	208	57	26	27	19
25....	46	....	....	....	....	42	69	186	56	25	29	23
26....	44	....	....	....	....	41	72	157	54	25	29	21
27....	46	....	....	....	....	40	72	157	51	26	30	19
28....	46	....	....	....	....	35	94	167	51	26	33	20
29....	42	....	....	....	....	36	132	183	51	32	31	21
30....	44	Nov. 1	....	....	....	32	140	177	52	41	28	20
31....	51	to 11	....	....	....	36	....	177	....	36	28	....
Total	1513	443	....	....	....	507	1997	5444	2827	1061	972	658
Mean.	48.8	40.3	....	....	....	33.8	66.6	176	94.2	34.2	31.4	21.9
Max..	67	69	....	....	....	42	140	236	154	51	43	26
Min...	35	24	....	....	....	24	39	128	51	25	27	17
Acre-ft.	3000	879	....	....	....	1010	3960	10800	5610	2100	1930	1310

Total run-off for period=30,599 acre-feet.

Discharge of Quartz Creek Near Ohio, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	20	22	17	18	12	22	27	32	110	27	15	17
2....	20	22	16	19	13	21	27	37	104	24	17	16
3....	19	20	16	19	13	20	26	45	96	22	17	15
4....	18	20	16	18	13	22	25	53	92	19	18	16
5....	17	20	17	18	11	21	27	57	90	22	20	15
6....	16	22	17	17	10	20	25	62	79	22	20	15
7....	16	21	17	16	11	24	24	77	72	20	24	14
8....	16	21	17	16	11	25	24	79	69	20	24	12
9....	17	23	18	17	11	22	24	83	63	18	24	19
10....	16	22	18	18	11	19	22	100	57	18	25	16
11....	18	22	19	19	12	22	22	110	55	18	23	13
12....	19	24	18	19	11	23	23	100	53	18	24	12
13....	20	27	16	15	11	22	26	90	50	16	19	14
14....	20	23	17	13	11	21	29	100	50	16	18	13
15....	21	20	17	13	12	21	36	110	50	20	18	12
16....	22	18	18	13	13	21	32	130	49	24	18	10
17....	21	17	17	13	12	22	28	132	48	26	18	10
18....	20	17	17	14	12	22	32	104	48	25	19	12
19....	20	17	16	12	13	22	39	84	46	21	20	18
20....	19	19	17	12	15	22	43	84	47	17	20	20
21....	20	19	17	13	15	22	46	86	42	18	21	22
22....	19	19	17	12	15	23	48	72	37	18	22	28
23....	19	20	17	12	15	23	48	63	36	21	23	36
24....	19	20	18	12	17	24	50	79	32	21	24	42
25....	19	19	17	12	17	24	44	81	31	18	22	36
26....	21	19	16	12	17	23	42	84	29	18	22	30
27....	20	20	15	13	20	22	42	92	30	19	22	30
28....	18	18	14	13	21	22	39	92	24	20	21	30
29....	20	17	14	12	22	21	36	100	24	19	20	32
30....	20	16	15	12	....	22	34	104	25	17	18	36
31....	21	....	16	11	....	24	....	115	....	17	17	....
Total	591	604	517	453	397	684	990	2637	1638	619	633	611
Mean.	19.1	20.1	16.7	14.6	13.7	22.1	33.0	85.1	54.6	20.0	20.4	20.4
Max..	22	27	19	19	22	25	50	132	110	27	25	42
Min...	16	16	14	11	10	19	22	32	24	16	15	10
Acre-ft.	1170	1200	1030	899	787	1360	1960	5230	3250	1230	1260	1210

Total run-off for water year 1939-40=20,590 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cebolla Creek at Powderhorn, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	55	79	....	....	....	....	82	265	256	55	44	60
2....	53	79	....	....	....	....	92	290	224	51	44	55
3....	60	79	....	....	....	....	105	270	212	53	53	49
4....	62	82	....	....	....	....	110	265	212	51	49	44
5....	60	84	....	....	....	....	115	275	247	46	47	40
6....	93	60	....	....	....	....	110	305	220	40	79	49
7....	166	46	....	....	....	....	120	238	180	38	127	62
8....	149	87	....	....	....	....	125	216	163	37	77	60
9....	108	90	....	....	....	....	110	220	156	35	58	60
10....	93	70	....	....	....	....	100	270	156	36	55	60
11....	87	72	....	....	....	....	105	270	166	36	55	67
12....	79	65	....	....	....	....	110	247	160	35	56	60
13....	82	37	....	....	....	....	105	229	153	33	58	53
14....	87	55	....	....	....	Mar. 16	100	212	130	33	56	51
15....	90	70	....	....	....	to 31	96	220	117	33	56	49
16....	114	78	....	....	....	49	88	238	111	35	55	49
17....	120	82	....	....	....	52	86	204	111	32	51	47
18....	99	....	....	....	....	44	100	200	108	33	53	47
19....	93	....	....	....	....	48	111	275	111	31	53	47
20....	87	....	....	....	....	54	133	355	102	33	53	47
21....	90	....	....	....	....	62	188	350	90	34	53	47
22....	84	....	....	....	....	66	247	345	82	30	56	47
23....	82	....	....	....	....	64	290	310	82	29	51	46
24....	79	....	....	....	....	82	220	247	79	27	55	44
25....	82	....	....	....	....	80	192	220	74	28	58	47
26....	79	....	....	....	....	76	216	204	70	34	56	47
27....	79	....	....	....	....	66	234	192	62	35	56	47
28....	93	....	....	....	....	68	270	200	62	44	65	47
29....	93	....	....	....	....	62	305	216	55	62	74	49
30....	84	Nov. 1	....	....	....	64	270	234	55	72	67	47
31....	79	to 17	....	....	....	74	....	234	....	51	62	....
Total	2761	1215	....	....	....	1011	4535	7816	4006	1222	1832	1524
Mean.	89.1	71.5	....	....	....	63.2	151	252	134	39.4	59.1	50.8
Max..	166	90	....	....	....	82	305	355	256	72	127	67
Min...	53	37	....	....	....	44	82	192	55	27	44	40
Acre-ft.	5480	2410	....	....	....	2010	9000	15500	7950	2420	3630	3020

Total run-off for period=51,420 acre-feet.

Discharge of Cebolla Creek at Powderhorn, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	46	55	51	42	39	33	42	61	96	40	45	39
2....	44	47	52	42	38	32	40	66	96	37	45	38
3....	42	44	57	42	36	32	43	70	86	30	39	40
4....	39	41	54	43	35	32	45	84	79	27	38	34
5....	40	42	54	43	34	32	49	84	73	26	34	34
6....	41	51	54	42	34	32	49	86	68	27	37	35
7....	41	40	55	38	34	31	49	88	66	26	42	36
8....	42	40	55	36	35	31	45	79	61	26	34	37
9....	44	49	55	38	35	31	45	81	61	29	35	38
10....	41	37	55	39	35	31	44	109	55	29	36	37
11....	42	37	51	39	34	31	50	156	56	29	36	36
12....	42	41	50	38	33	31	48	177	55	26	34	37
13....	41	40	49	35	33	31	55	136	52	23	32	33
14....	41	37	50	31	34	32	70	156	52	22	32	33
15....	41	38	50	31	34	33	81	149	53	23	33	36
16....	41	40	49	32	33	33	73	143	52	25	32	36
17....	44	41	48	34	33	33	64	153	52	27	32	36
18....	42	42	46	34	33	32	64	156	48	28	35	46
19....	44	40	45	33	34	31	79	120	46	28	46	47
20....	41	38	43	35	34	32	93	114	52	28	49	45
21....	40	38	45	35	32	33	104	120	53	33	46	44
22....	41	40	47	34	32	35	88	120	53	31	44	43
23....	44	43	47	34	33	36	84	109	46	36	44	44
24....	42	44	48	35	32	38	104	91	44	38	52	46
25....	44	45	47	36	31	39	96	88	38	34	49	48
26....	55	43	42	37	32	41	96	96	32	37	50	46
27....	49	42	38	37	34	44	104	96	32	50	45	49
28....	44	41	35	36	34	43	84	96	31	58	43	45
29....	51	45	36	36	33	39	73	93	27	61	43	43
30....	47	49	38	37	....	38	68	93	30	53	42	48
31....	56	....	40	38	....	39	....	96	....	50	40	....
Total	1352	1270	1486	1142	983	1061	2029	3366	1645	1037	1244	1209
Mean.	43.6	42.3	47.9	36.8	33.9	34.2	67.6	109	54.8	33.5	40.1	40.3
Max..	56	55	57	43	39	44	104	177	96	61	52	49
Min...	39	37	35	31	31	31	40	61	27	22	32	33
Acre-ft.	2680	2520	2950	2270	1950	2100	4020	6680	3260	2060	2470	2400

Total run-off for water year 1939-40=35,360 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lake Fork River at Gateview, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	94	138	....	....	....	....	127	320	853	330	196	96
2....	80	124	....	....	....	....	118	394	718	320	182	96
3....	102	127	....	....	....	....	124	406	742	316	168	86
4....	118	109	....	....	....	....	122	435	902	312	160	86
5....	117	131	....	....	....	....	118	510	1020	306	151	84
6....	149	120	....	....	....	....	122	570	938	309	166	92
7....	182	111	....	....	....	....	111	440	825	298	230	111
8....	203	107	....	....	....	....	116	378	778	292	208	129
9....	300	122	....	....	....	....	122	402	790	289	182	151
10....	260	113	....	....	....	....	122	535	790	274	166	153
11....	190	92	....	....	....	....	116	628	839	265	153	160
12....	180	84	....	....	....	....	118	646	832	256	142	171
13....	180	73	....	....	....	....	124	555	923	241	129	179
14....	185	73	....	....	....	Mar. 16	133	490	954	235	124	175
15....	191	74	....	....	....	to 31	127	495	881	225	118	162
16....	235	71	....	....	....	49	118	515	730	225	113	153
17....	241	100	....	....	....	56	105	450	676	218	109	142
18....	228	84	....	....	....	66	102	460	590	203	107	135
19....	208	71	....	....	....	78	105	622	490	191	102	122
20....	193	86	....	....	....	150	105	760	402	177	94	116
21....	179	86	....	....	....	145	116	778	346	166	90	116
22....	171	84	....	....	....	140	146	860	350	160	98	111
23....	160	65	....	....	....	380	173	818	382	153	94	98
24....	155	51	....	....	....	360	168	694	390	146	92	100
25....	149	55	....	....	....	260	182	580	386	144	94	100
26....	153	57	....	....	....	190	184	505	382	144	96	98
27....	151	59	....	....	....	155	200	515	378	162	92	96
28....	129	60	....	....	....	145	241	646	354	182	96	94
29....	124	60	....	....	....	135	298	825	350	191	102	96
30....	133	58	....	....	....	120	326	811	354	210	105	92
31....	140	....	....	....	....	115	....	797	....	218	94	....
Total	5280	2645	....	....	....	2544	4389	17840	19345	7158	4053	3600
Mean.	170	88.2	....	....	....	159	146	575	645	231	131	120
Max..	300	138	....	....	....	380	326	860	1020	330	230	179
Min...	80	51	....	....	....	49	102	320	346	144	90	84
Acre-ft.	10470	5250	....	....	....	5050	8710	35390	38370	14200	8040	7140

Total run-off for period=132,620 acre-feet.

Discharge of Lake Fork River at Gateview, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	88	51	37	38	40	40	61	155	1130	310	105	81
2....	82	54	37	38	41	40	55	155	1120	303	99	80
3....	86	51	36	38	42	39	54	179	1040	292	99	83
4....	76	48	36	38	42	40	54	245	884	269	91	80
5....	74	46	35	36	39	38	56	300	828	248	91	78
6....	73	50	35	35	38	36	56	310	699	233	91	76
7....	69	46	34	33	39	38	58	365	640	218	93	74
8....	71	45	34	33	39	43	56	393	635	209	91	76
9....	71	51	34	35	39	42	55	449	600	203	85	72
10....	71	48	33	36	39	36	55	560	514	191	83	69
11....	71	48	33	36	38	42	54	672	532	182	81	69
12....	69	51	33	35	38	44	54	728	575	173	74	67
13....	67	48	32	34	39	41	55	746	635	167	74	72
14....	65	46	33	33	38	40	64	740	688	164	67	69
15....	65	45	33	31	37	40	81	746	699	161	72	67
16....	65	45	34	31	37	41	85	752	595	161	74	67
17....	62	40	35	32	37	42	80	790	615	152	74	69
18....	64	38	34	33	38	41	80	625	575	150	71	80
19....	58	38	33	35	37	41	93	478	537	145	78	103
20....	56	38	32	37	37	41	120	429	537	197	93	108
21....	51	37	33	37	38	42	167	413	510	278	93	105
22....	57	35	35	35	39	44	197	381	501	188	89	110
23....	51	35	37	35	38	47	209	413	474	130	85	115
24....	58	36	39	35	37	49	230	501	453	145	93	118
25....	50	37	37	36	36	49	236	610	413	130	103	120
26....	57	35	35	39	35	48	251	688	385	128	99	105
27....	64	34	32	40	37	47	269	722	365	125	97	108
28....	60	33	33	38	38	47	236	849	334	120	93	105
29....	52	35	35	37	40	53	206	905	324	120	91	101
30....	50	36	36	37	....	60	200	898	320	118	89	108
31....	51	....	37	38	....	60	....	1060	....	112	85	....
Total	2004	1280	1072	1104	1112	1351	3527	17257	18157	5722	2703	2635
Mean.	64.6	42.7	34.6	35.6	38.3	43.6	118	557	605	185	87.2	87.8
Max..	88	54	39	40	42	60	269	1060	1130	310	105	120
Min...	50	33	32	31	35	36	54	155	320	112	67	67
Acre-ft.	3970	2540	2130	2190	2210	2680	7000	34230	36010	11350	5360	5230

Total run-off for water year 1939-40=114,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River at Iola, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1....	288	409	323	210	260	150	670	1980	3210	1040	934	800
2....	270	450	358	220	250	150	833	2220	2830	1010	910	800
3....	279	460	288	240	200	150	934	2050	2600	970	910	778
4....	288	460	242	250	170	170	1020	1990	2700	899	877	778
5....	279	481	288	270	160	180	1030	2200	2960	866	888	833
6....	409	470	288	260	180	180	994	2310	2850	800	922	855
7....	575	349	296	250	160	160	855	2000	2480	723	1150	970
8....	663	389	242	250	160	150	811	1840	2170	660	1070	982
9....	597	450	279	260	170	160	922	1810	2040	620	1020	899
10....	502	481	314	270	170	170	946	2050	1870	580	922	778
11....	450	543	256	250	150	190	844	2150	1870	630	833	789
12....	419	554	242	260	160	200	811	2100	1870	767	899	767
13....	389	460	228	270	170	190	866	1850	1900	778	866	756
14....	399	429	176	280	180	180	994	1890	1960	800	888	680
15....	440	440	170	280	180	171	946	1990	1900	844	899	500
16....	470	470	214	290	160	190	866	2020	1810	855	899	500
17....	491	522	270	270	150	240	734	1980	1720	811	866	384
18....	470	460	323	260	133	290	690	1930	1550	756	877	336
19....	419	450	290	270	130	350	745	2020	1400	734	888	313
20....	378	450	270	290	140	400	800	2330	1310	712	899	299
21....	378	481	300	300	160	560	866	2420	1220	811	910	285
22....	378	470	310	310	160	1200	1110	2600	1150	855	899	278
23....	368	378	290	308	150	1800	1320	2640	1160	844	877	271
24....	349	460	250	310	140	1650	1220	2380	1190	855	866	344
25....	340	389	230	300	150	1500	1070	2140	1210	877	844	392
26....	332	256	230	260	170	1420	1090	1920	1210	888	833	463
27....	349	249	250	220	180	1250	1170	1940	1150	922	811	481
28....	368	263	220	210	180	888	1400	2150	1110	994	844	500
29....	358	263	210	230	....	778	1700	2600	1080	934	888	540
30....	378	279	210	260	....	660	1870	3120	1050	899	888	500
31....	389	....	210	270	....	640	....	3170	....	934	855	....
Total	12462	12665	8067	8178	4723	16367	30127	67790	54530	25668	27932	17851
Mean.	402	422	260	264	169	528	1004	2187	1818	828	901	595
Max..	663	554	358	310	260	1800	1870	3170	3210	1040	1150	982
Min...	270	249	170	210	130	150	670	1810	1050	580	811	271
Acre-ft.	24720	25120	16000	16220	9370	32460	59760	134500	108200	50910	55400	35410

Total run-off for water year 1938-39=568,100 acre-feet.

Discharge of Gunnison River at Iola, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	500	312	306	220	205	180	466	466	1490	282	767	650
2....	490	300	288	230	205	180	458	434	1460	276	833	620
3....	712	300	282	240	190	185	402	466	1440	255	833	610
4....	570	294	270	250	175	185	354	650	1290	235	811	610
5....	402	294	276	250	170	190	362	778	1200	330	800	570
6....	394	306	288	240	170	180	386	680	1100	510	877	530
7....	450	306	300	230	180	160	378	745	970	600	970	520
8....	442	300	288	230	185	166	354	745	888	620	910	520
9....	434	306	282	240	185	170	338	778	822	640	877	520
10....	434	312	270	250	182	170	338	1050	734	650	888	490
11....	426	294	265	250	180	170	312	1310	660	712	866	490
12....	418	300	270	223	180	180	294	1430	660	723	866	590
13....	418	312	245	210	175	195	346	1410	690	745	866	670
14....	426	318	245	200	180	180	426	1290	789	734	866	660
15....	426	312	250	195	185	180	510	1210	844	734	899	640
16....	426	300	260	205	185	200	560	1320	811	811	922	580
17....	426	300	260	210	180	220	458	1560	811	811	877	550
18....	426	318	250	220	170	240	450	1410	800	822	866	378
19....	426	330	240	205	180	240	520	1160	778	712	550	402
20....	426	330	235	215	185	250	660	1110	745	701	620	338
21....	434	330	240	220	185	270	833	1280	712	723	844	282
22....	434	324	250	210	170	320	899	1260	712	811	789	294
23....	434	318	260	200	170	380	866	1080	680	789	778	306
24....	434	312	265	200	180	450	922	1070	600	756	789	255
25....	458	312	260	205	180	450	855	1140	520	734	811	245
26....	474	300	250	210	180	482	767	1200	474	767	745	240
27....	490	312	230	220	185	530	789	1280	434	822	640	235
28....	482	306	215	220	185	510	701	1260	362	822	474	230
29....	482	294	210	200	185	450	630	1280	300	778	474	225
30....	474	288	210	195	....	410	550	1290	288	778	640	225
31....	370	....	220	195	....	434	....	1390	....	811	660	....
Total	14038	9240	7980	6788	5267	8507	16184	33532	24064	20494	24408	13475
Mean.	453	308	257	219	182	274	539	1082	802	661	787	449
Max..	712	330	306	250	205	530	922	1560	1490	822	970	670
Min...	370	288	210	195	170	160	294	434	288	235	474	225
Ac.-ft.	27840	18330	15830	13460	10450	16870	32100	66510	47730	40650	48410	26730

Total run-off for water year 1939-40=364,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Gunnison River Near Somerset, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	94	101	100	70	62	56	315	2170	1560	278	154	88
2....	94	114	96	72	54	60	421	2290	1370	270	121	84
3....	92	107	94	68	52	66	548	2170	1320	255	110	74
4....	90	107	92	66	56	64	630	2260	1380	236	103	70
5....	90	112	90	68	58	58	728	2430	1430	225	101	80
6....	88	90	88	66	56	64	638	2430	1300	214	124	141
7....	92	61	88	64	58	68	489	2020	1090	197	167	221
8....	136	68	82	62	60	72	512	1820	1010	194	131	188
9....	128	66	86	60	54	76	646	1920	911	185	110	173
10....	116	92	84	62	50	72	560	2090	830	182	103	151
11....	114	100	86	60	52	74	484	2160	870	173	99	221
12....	110	103	88	58	50	76	512	1970	900	164	92	228
13....	107	61	80	60	52	86	662	1780	933	161	90	179
14....	105	70	64	58	50	96	710	1780	988	154	88	156
15....	107	100	74	60	50	99	536	1830	860	148	90	141
16....	107	120	76	62	52	99	489	1820	710	146	92	126
17....	121	116	70	60	49	114	416	1650	638	141	88	116
18....	112	103	68	62	52	119	416	1620	518	148	86	112
19....	107	112	70	64	50	143	495	1770	446	143	80	103
20....	103	116	72	66	48	179	512	1890	391	138	80	96
21....	101	110	82	65	48	228	782	1860	373	136	80	96
22....	99	103	78	68	50	270	1180	1900	368	138	80	101
23....	96	94	72	66	52	298	1350	1850	391	136	72	99
24....	94	76	68	62	52	332	1200	1660	416	133	68	94
25....	94	66	64	58	54	359	977	1410	411	133	67	92
26....	92	100	68	60	58	368	988	1170	373	131	67	90
27....	92	105	66	62	56	359	1280	1120	337	131	74	88
28....	94	105	68	64	54	306	1680	1180	332	159	86	92
29....	90	105	66	62	....	290	2010	1360	324	154	116	99
30....	92	100	68	64	....	243	2170	1530	298	133	96	92
31....	90	....	68	66	....	255	....	1520	....	143	88	....
Total	3147	2883	2416	1965	1489	5049	24336	56430	23078	5279	3003	3691
Mean.	102	96.1	77.9	63.4	53.2	163	811	1820	769	170	96.9	123
Max..	136	120	100	72	62	368	2170	2430	1560	278	167	228
Min...	88	61	64	58	49	56	315	1120	298	131	67	70
Acre-ft.	6240	5720	4790	3900	2950	10010	48270	111900	45770	10470	5960	7320

Total run-off for water year 1938-39=263,300 acre-feet.

Discharge of North Fork Gunnison River Near Somerset, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	86	70	58	54	55	68	236	810	1680	262	78	63
2....	78	69	56	52	57	65	236	933	1600	243	75	63
3....	73	69	56	52	57	63	197	1360	1500	221	72	62
4....	81	68	55	52	55	62	194	1920	1360	211	69	61
5....	81	68	55	52	54	66	225	2020	1220	201	68	60
6....	78	70	54	52	50	72	282	1950	1090	188	70	58
7....	76	69	57	54	56	66	251	2030	922	175	78	57
8....	81	65	58	50	50	68	228	1980	900	168	73	56
9....	90	69	62	45	55	72	218	2160	746	159	69	55
10....	88	63	62	43	55	73	204	2380	638	146	68	55
11....	88	57	60	43	55	75	172	2470	678	140	68	55
12....	86	62	60	44	52	66	159	2500	773	133	65	55
13....	83	63	40	43	54	62	188	2460	820	124	68	60
14....	83	62	50	42	57	55	298	2310	870	121	68	62
15....	81	60	48	35	56	60	457	2070	860	136	68	61
16....	78	52	56	39	50	73	500	2170	764	159	65	60
17....	75	50	55	40	48	93	416	2080	728	143	63	68
18....	73	49	57	41	51	83	411	1710	678	136	63	88
19....	72	49	44	40	56	103	560	1600	609	115	65	103
20....	70	62	48	39	50	118	870	1500	560	109	81	124
21....	69	56	49	39	48	136	1160	1530	518	127	68	109
22....	69	57	52	41	56	168	1310	1380	489	124	66	159
23....	69	66	50	40	54	208	1350	1360	446	124	63	143
24....	68	70	51	40	54	243	1490	1440	406	121	70	143
25....	68	68	51	47	54	274	1470	1580	359	112	83	118
26....	78	69	52	50	56	298	1610	1670	337	109	115	112
27....	83	78	44	54	58	324	1680	1670	302	112	93	95
28....	69	66	37	50	58	298	1430	1610	286	124	86	90
29....	73	65	45	50	62	232	1160	1620	274	98	76	136
30....	68	57	50	51	....	194	922	1620	266	90	70	181
31....	69	....	55	54	....	211	....	1710	....	83	65	....
Total	2384	1898	1627	1428	1573	4049	19884	55603	22679	4514	2249	2612
Mean.	76.9	63.3	52.5	46.1	54.2	131	663	1794	756	146	72.5	87.1
Max..	90	78	62	54	62	324	1680	2500	1680	262	115	181
Min...	68	49	37	35	48	55	159	810	266	83	63	55
Acre-ft.	4730	3760	3230	2830	3120	8030	39440	110300	44980	8950	4460	5180

Total run-off for water year 1939-40=239,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Muddy Creek Near Bardine, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	19	21	....	....	....	....	76	426	208	27	36	13
2....	19	23	....	....	....	....	100	432	157	27	22	11
3....	18	23	....	....	....	....	120	426	132	25	19	10
4....	18	22	....	....	....	....	140	482	129	25	18	10
5....	16	23	....	....	....	....	160	503	132	23	19	11
6....	18	24	....	....	....	....	120	516	120	22	20	20
7....	19	28	....	....	....	....	94	426	100	20	27	22
8....	31	32	....	....	....	....	98	380	92	20	20	16
9....	30	26	....	....	....	....	135	414	81	20	19	15
10....	26	30	....	....	....	....	120	432	74	20	18	13
11....	23	....	....	....	....	Mar. 13	94	432	72	19	16	19
12....	21	....	....	....	....	to 31	98	391	69	18	15	20
13....	21	....	....	....	....	19	135	328	69	18	15	18
14....	21	....	....	....	....	20	145	303	67	16	15	15
15....	21	....	....	....	....	20	115	313	62	15	14	14
16....	21	....	....	....	....	22	92	323	58	14	14	14
17....	21	....	....	....	....	24	100	289	52	14	14	14
18....	21	....	....	....	....	28	80	270	48	15	13	14
19....	21	....	....	....	....	36	94	280	48	18	11	13
20....	21	....	....	....	....	44	110	293	46	19	11	13
21....	20	....	....	....	....	54	160	270	44	20	13	13
22....	20	....	....	....	....	60	232	261	40	22	13	13
23....	21	....	....	....	....	66	266	244	38	22	11	13
24....	19	....	....	....	....	70	224	208	36	22	10	13
25....	19	....	....	....	....	62	187	180	36	22	11	13
26....	19	....	....	....	....	62	183	147	34	22	10	13
27....	19	....	....	....	....	60	228	132	32	22	10	13
28....	21	....	....	....	....	56	328	132	31	25	13	14
29....	21	....	....	....	....	50	402	129	29	36	14	16
30....	19	Nov. 1	....	....	....	52	426	135	29	25	14	14
31....	19	to 10	....	....	....	64	....	144	....	40	15	....
Total	643	252	....	....	....	869	4862	9641	2165	673	490	430
Mean.	20.7	25.2	....	....	....	45.7	162	311	72.2	21.7	15.8	14.3
Max..	31	32	....	....	....	70	426	516	208	40	36	22
Min...	16	21	....	....	....	19	76	129	29	14	10	10
Acre-ft.	1280	500	....	....	....	1720	9640	19120	4290	1330	972	853

Total run-off for period=39,705 acre-feet.

Discharge of East Muddy Creek Near Bardine, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	14	16	....	....	12	48	173	138	27	12	9.4
2....	11	14	14	....	....	12	46	212	135	27	16	8.9
3....	11	14	14	....	....	12	42	323	126	23	18	8.9
4....	11	13	14	....	....	11	40	469	111	22	18	8.9
5....	13	14	11	....	....	12	46	530	100	20	17	8.4
6....	11	14	11	....	....	13	50	496	94	20	19	8.4
7....	11	13	13	....	....	12	48	496	81	20	19	7.8
8....	15	13	14	....	....	12	46	456	76	19	16	7.8
9....	16	13	14	....	....	13	44	510	72	18	15	7.2
10....	14	14	14	....	....	13	42	496	64	15	15	7.2
11....	13	14	14	....	....	14	38	489	62	15	15	7.2
12....	13	14	14	....	....	13	36	489	62	15	14	7.2
13....	13	14	9	....	....	11	40	516	62	14	13	9.4
14....	13	14	11	....	....	10	54	482	56	13	13	11
15....	13	14	12	....	....	12	79	420	56	11	13	9.4
16....	13	14	13	....	....	14	108	420	52	11	13	8.9
17....	13	15	13	....	....	17	81	359	50	11	11	9.4
18....	13	16	13	....	....	15	72	298	48	13	13	20
19....	11	15	10	....	....	19	94	266	46	14	14	19
20....	11	14	11	....	....	21	150	240	42	13	14	20
21....	11	14	12	....	....	24	201	228	40	13	14	18
22....	13	15	12	....	....	29	248	201	38	11	14	22
23....	11	18	12	....	....	35	270	187	36	11	15	19
24....	11	15	12	....	....	45	232	183	31	13	19	19
25....	11	16	12	....	....	52	308	180	27	14	22	16
26....	18	14	12	....	....	56	313	183	25	13	23	16
27....	18	11	11	....	....	60	333	176	25	13	19	14
28....	15	13	9	....	....	54	284	157	22	16	14	14
29....	14	11	10	....	....	44	224	160	22	14	13	22
30....	15	13	11	....	....	40	190	150	25	13	10	36
31....	14	....	13	....	....	46	....	147	....	11	9.4	....
Total	403	420	381	....	....	753	3807	10092	1824	483	470.4	400.4
Mean.	13.0	14.0	12.3	....	....	24.3	127	326	60.8	15.6	15.2	13.3
Max..	18	18	16	....	....	60	333	530	138	27	23	36
Min...	11	11	9	....	....	10	36	147	22	11	9.4	7.2
Acre-ft.	799	833	756	....	....	1490	7550	20020	3620	958	933	794

Total run-off for period=37,750 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River Near Grand Junction, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	856	1080	1130	1060	1080	1080	2020	7060	6760	1080	892	618
2....	840	1170	1230	1050	981	1040	2340	7210	6870	1040	830	578
3....	786	1400	1350	1090	929	1020	2850	7520	6010	1040	755	506
4....	773	1350	1200	1140	911	1020	3610	7120	5800	1010	660	482
5....	848	1150	1170	1170	1010	1000	4140	7110	6290	954	629	482
6....	838	1400	1140	1080	1050	1000	4280	7830	6890	863	570	632
7....	816	1420	1130	1230	1050	1020	3980	7590	6250	771	750	1290
8....	1050	1270	1070	1120	978	1100	4070	6210	5450	699	1310	1080
9....	1990	1230	1140	1140	981	1200	3430	5550	5000	575	1320	1250
10....	1830	1420	1140	1140	926	1250	4040	5930	4700	487	1040	1360
11....	1580	1540	1150	1120	900	1190	3690	6680	4490	443	908	1510
12....	1500	1540	1170	1060	1010	1130	3050	6790	4750	399	744	1890
13....	1430	1520	1140	1030	904	1080	3050	6180	5050	347	564	1760
14....	1390	1340	1020	1030	960	1130	3470	5490	5350	333	543	1960
15....	1380	1190	996	1020	1040	1120	3530	5420	5180	354	579	1520
16....	1390	1220	858	1000	970	1090	3130	5630	4670	347	466	1490
17....	1480	1330	1080	970	1010	1250	2680	5720	3700	382	455	1290
18....	1580	1390	1300	1000	928	1380	2200	5040	3420	428	418	1230
19....	1580	1270	1150	1050	858	1470	2000	4960	2950	435	375	1080
20....	1470	1210	1100	1020	985	1520	2240	5640	2510	389	352	968
21....	1400	1290	1030	977	967	1680	2450	6570	2150	342	359	912
22....	1360	1300	1080	964	943	1600	3380	6790	1710	328	381	845
23....	1340	1200	1080	1020	928	2300	4580	7040	1480	307	380	773
24....	1280	1160	1010	1120	967	3080	5160	6780	1490	328	410	776
25....	1210	1070	895	1000	1090	3590	4520	5900	1470	379	394	693
26....	1160	1090	930	911	1220	3830	3720	5030	1520	379	366	656
27....	1160	1220	906	856	1200	3700	3650	4300	1500	423	362	689
28....	1100	1150	977	853	1150	3420	4400	4190	1330	494	372	784
29....	1090	1160	1080	1010	....	2810	5660	4750	1290	600	723	854
30....	1060	1160	1090	1120	....	2500	6580	5540	1150	916	676	889
31....	1020	....	1080	1010	....	2040	....	6370	....	888	631	....
Total	38587	38240	33822	32361	27926	53640	107900	189940	117180	17760	19214	30847
Mean.	1245	1275	1091	1044	997	1730	3597	6127	3906	573	620	1028
Max..	1990	1540	1350	1230	1220	3830	6580	7830	6890	1080	1320	1960
Min...	773	1070	858	853	858	1000	2000	4190	1150	307	352	482
Acre-ft.	76540	75850	67080	64190	55390	106400	214000	376700	232400	35230	38110	61180

Total run-off for water year 1938-39=1,403,000 acre-feet.

Discharge of Gunnison River Near Grand Junction, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	953	917	992	852	870	726	1200	2870	3470	761	507	590
2....	925	985	928	914	913	873	1410	2510	3180	697	437	614
3....	911	1060	907	906	944	837	1370	2680	3260	646	429	622
4....	1030	1040	928	894	913	822	1190	3580	3590	570	384	582
5....	1070	1020	907	896	936	790	1080	5310	4170	543	362	500
6....	1150	999	902	877	962	782	968	5680	4650	511	377	472
7....	867	1010	897	858	747	819	1090	5550	4270	444	362	441
8....	800	1020	871	824	759	798	1100	5710	3640	417	369	456
9....	825	1000	886	760	741	767	968	5820	3590	439	377	448
10....	882	1070	909	776	741	775	860	6470	3250	392	421	441
11....	880	1080	948	814	741	840	795	7590	2780	368	369	418
12....	895	1020	913	862	729	874	731	8180	2740	390	355	411
13....	880	991	905	891	705	824	584	8560	3010	376	334	542
14....	858	1020	864	803	677	737	511	8530	3430	376	327	466
15....	835	1030	745	800	698	724	708	7640	3290	383	313	669
16....	814	1010	700	738	719	730	1540	7180	3750	398	320	741
17....	795	981	757	703	698	756	1810	7220	3110	555	320	756
18....	772	930	822	655	677	823	1450	8150	3040	522	306	818
19....	745	907	839	602	677	854	1240	6680	2770	578	341	1040
20....	740	925	774	665	691	868	1730	5510	2510	578	525	1040
21....	731	918	705	695	677	889	3160	4970	2240	530	436	1100
22....	716	955	709	700	677	954	4250	5180	2030	482	588	1120
23....	694	988	704	680	698	1010	4310	4770	1940	436	474	1140
24....	682	974	756	696	740	1130	4360	4500	1790	420	629	1190
25....	660	1000	767	740	772	1310	4760	4560	1590	458	835	1230
26....	678	1010	784	790	796	1470	4570	4300	1290	437	944	1200
27....	815	1040	740	780	1040	1630	4800	3990	1090	414	1100	1180
28....	837	1080	625	830	900	1900	4850	3960	943	369	1050	1110
29....	873	1100	600	810	828	1840	3980	3870	811	407	886	1500
30....	836	1050	661	790	....	1450	3330	3870	718	611	757	1840
31....	852	....	737	780	....	1350	....	3870	....	555	657	....
Total	26001	30130	25182	24381	22666	30952	64705	169260	81942	15063	15891	24677
Mean.	839	1004	812	786	782	998	2157	5460	2731	486	513	823
Max..	1150	1100	992	914	1040	1900	4850	8560	4650	761	1100	1840
Min...	660	907	600	602	677	724	511	2510	718	368	306	411
Ac.-ft.	51570	59760	49950	48360	44960	61390	128300	335700	162500	29880	31520	48950

Total run-off for water year 1939-40=1,053,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Leroux Creek, Near Cedaredge, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	12	....	....	....	....	23	301	135	22	18	12
2....	11	12	....	....	....	....	26	312	110	22	17	12
3....	11	13	....	....	....	....	32	279	95	25	16	11
4....	11	14	....	....	....	....	41	299	89	24	16	10
5....	11	13	....	....	....	....	54	399	84	22	17	14
6....	12	14	....	....	....	....	67	331	74	22	21	32
7....	14	11	....	....	....	....	65	290	64	22	24	28
8....	15	12	....	....	....	....	71	312	55	22	18	20
9....	15	13	....	....	....	....	86	331	50	24	16	15
10....	14	12	....	....	....	....	74	368	44	24	16	14
11....	15	11	....	....	....	....	60	334	43	24	17	19
12....	17	12	....	....	....	....	59	279	40	22	16	24
13....	22	10	....	....	....	....	71	246	39	22	12	18
14....	21	11	....	....	....	....	67	259	34	22	14	18
15....	23	12	....	....	....	....	60	264	30	21	14	14
16....	22	12	....	....	....	....	59	239	27	20	13	12
17....	20	11	....	....	....	....	56	202	29	21	14	11
18....	17	11	....	....	....	....	59	210	29	22	13	10
19....	17	11	....	....	....	....	73	257	29	20	14	9.5
20....	16	10	....	....	....	....	85	244	28	19	13	9.2
21....	16	11	....	....	....	....	117	214	28	18	12	8.5
22....	16	11	....	....	....	....	154	194	27	16	12	8.3
23....	14	11	....	....	....	....	182	174	26	16	11	7.6
24....	14	9	....	....	....	....	160	150	25	15	12	7.0
25....	13	10	....	....	....	....	135	126	24	16	14	7.8
26....	12	9	....	....	....	....	115	115	23	16	13	8.0
27....	12	10	....	....	....	....	119	110	23	15	12	8.3
28....	12	10	....	....	....	....	242	103	22	18	12	8.5
29....	12	10	....	....	....	....	275	106	22	16	16	11
30....	12	11	....	....	....	....	292	124	22	17	15	8.5
31....	12	....	....	....	....	22	....	130	....	17	12	....
Total	460	339	....	....	....	....	2979	7302	1370	622	460	396.2
Mean.	14.8	11.3	....	....	....	....	99.3	236	45.7	20.1	14.8	13.2
Max..	23	14	....	....	....	....	292	399	135	25	24	32
Min...	11	9	....	....	....	....	23	103	22	15	11	7.0
Acre-ft.	912	672	....	....	....	....	5910	14480	2720	1230	912	786

Total run-off for period=27,622 acre-feet.

Discharge of Leroux Creek Near Cedaredge, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.4	9.2	....	....	....	4.2	13	84	108	31	15	12
2....	6.8	9.2	....	....	....	4.1	11	114	79	27	19	10
3....	6.4	9.7	....	....	....	3.9	12	164	72	25	20	9.7
4....	6.6	8.5	....	....	....	3.8	11	269	66	23	20	10
5....	6.8	8.0	....	....	....	4.0	14	323	62	21	19	10
6....	8.0	8.3	....	....	....	4.4	16	386	59	21	21	9.5
7....	7.0	7.0	....	....	....	4.0	16	377	54	21	20	9.2
8....	7.2	6.6	....	....	....	4.1	15	346	50	20	18	9.2
9....	7.6	7.6	....	....	....	4.4	13	464	44	23	16	8.5
10....	6.6	5.0	....	....	....	4.6	12	521	38	23	19	6.8
11....	8.5	8.0	....	....	....	4.6	11	437	34	23	19	6.0
12....	8.0	8.5	....	....	....	4.2	13	409	32	24	14	5.6
13....	7.6	7.2	....	....	....	3.6	19	484	30	23	15	8.8
14....	7.0	6.8	....	....	....	4.0	36	460	28	22	15	9.0
15....	6.2	6.8	....	....	....	4.7	46	419	27	21	18	8.0
16....	7.0	6.4	....	....	....	5.4	38	416	28	20	18	7.2
17....	7.0	6.2	....	....	....	5.8	31	300	27	21	15	9.7
18....	6.8	5.5	....	....	....	5.3	37	260	26	21	12	52
19....	7.0	5.2	....	....	....	7.0	61	245	25	20	12	52
20....	6.6	7.4	....	....	....	8.6	93	212	27	19	13	34
21....	6.2	7.8	....	....	....	11	123	190	31	17	13	27
22....	5.6	7.0	....	....	....	12	144	172	30	16	16	32
23....	5.5	6.4	....	....	....	14	170	172	30	17	18	30
24....	6.0	6.6	....	....	....	16	168	164	26	17	18	30
25....	7.0	6.4	....	....	....	19	144	160	27	17	20	21
26....	7.0	6.4	....	....	....	20	166	156	27	17	24	21
27....	7.6	6.2	....	....	....	19	179	140	30	16	24	19
28....	7.0	7.2	....	....	....	16	136	124	29	21	17	17
29....	8.0	8.4	....	....	....	13	96	117	29	17	13	36
30....	6.0	7.5	....	....	....	12	80	112	32	16	11	49
31....	7.8	....	....	....	....	13	....	102	....	13	12	....
Total	215.8	217.0	....	....	....	259.7	1924	8299	1207	633	524	569.2
Mean.	6.96	7.23	....	....	....	8.38	64.1	268	40.2	20.4	16.9	19.0
Max..	8.5	9.7	....	....	....	20	179	521	108	31	24	52
Min...	5.5	5.0	....	....	....	3.6	11	84	25	13	11	5.6
Acre-ft.	428	430	....	....	....	515	3820	16460	2390	1260	1040	1130

Total run-off for period=27,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek Above Cedaredge, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	....	....	60	30	10
2....	....	....	....	....	....	....	....	....	....	44	31	11
3....	....	....	....	....	....	....	....	....	....	44	31	10
4....	....	....	....	....	....	....	....	....	....	32	45	9.0
5....	....	....	....	....	....	....	....	....	....	31	48	14
6....	....	....	....	....	....	....	....	....	....	63	27	29
7....	....	....	....	....	....	....	....	....	....	65	26	28
8....	....	....	....	....	....	....	....	....	....	67	24	24
9....	....	....	....	....	....	....	....	....	....	65	24	21
10....	....	....	....	....	....	....	....	....	....	63	27	14
11....	....	....	....	....	....	....	....	....	....	69	26	18
12....	....	....	....	....	....	....	....	....	....	69	38	19
13....	....	....	....	....	....	....	....	....	....	58	42	14
14....	....	....	....	....	....	....	....	....	....	51	25	22
15....	....	....	....	....	....	....	....	....	....	45	18	12
16....	....	....	....	....	....	....	....	....	....	43	19	14
17....	....	....	....	....	....	....	....	....	....	45	20	11
18....	....	....	....	....	....	....	....	....	June 20	44	28	9.4
19....	....	....	....	....	....	....	....	....	to 30	44	29	9.8
20....	....	....	....	....	....	....	....	....	34	60	29	9.0
21....	....	....	....	....	....	....	....	....	49	62	30	9.4
22....	....	....	....	....	....	....	....	....	39	53	28	9.8
23....	....	....	....	....	....	....	....	....	41	51	28	5.8
24....	....	....	....	....	....	....	....	....	58	38	29	8.2
25....	....	....	....	....	....	....	....	....	56	36	28	10
26....	....	....	....	....	....	....	....	....	50	39	22	9.4
27....	....	....	....	....	....	....	....	....	49	45	22	7.8
28....	....	....	....	....	....	....	....	....	56	41	21	10
29....	....	....	....	....	....	....	....	....	56	38	24	10
30....	....	....	....	....	....	....	....	....	59	35	14	12
31....	....	....	....	....	....	....	....	....	....	32	11	....
Total	....	....	....	....	....	....	....	....	550	1532	844	400.6
Mean.	....	....	....	....	....	....	....	....	50.0	49.4	27.2	13.4
Max..	....	....	....	....	....	....	....	....	59	69	48	29
Min...	....	....	....	....	....	....	....	....	34	31	11	5.8
Acre-ft.	....	....	....	....	....	....	....	....	1090	3040	1670	795

Total run-off for period=6,595 acre-feet.

Discharge of Surface Creek Above Cedaredge, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	....	....	....	....	....	7.0	54	88	59	28	34
2....	14	....	....	....	....	....	6.5	75	98	56	37	33
3....	17	....	....	....	....	....	6.5	109	96	54	37	21
4....	17	....	....	....	....	....	7.0	169	102	57	23	21
5....	15	....	....	....	....	....	8.2	185	106	57	21	18
6....	16	....	....	....	....	....	9.5	196	100	60	38	20
7....	14	....	....	....	....	....	13	164	96	61	42	18
8....	14	....	....	....	....	....	11	159	98	60	36	23
9....	13	....	....	....	....	....	8.2	185	96	59	34	23
10....	12	....	....	....	....	....	7.0	188	67	62	24	19
11....	11	....	....	....	....	....	6.5	174	62	63	21	17
12....	11	....	....	....	....	....	9.4	164	69	52	27	17
13....	12	....	....	....	....	....	12	174	68	56	28	22
14....	10	....	....	....	....	....	24	164	65	51	41	20
15....	9.8	....	....	....	....	....	34	145	61	52	45	18
16....	8.6	....	....	....	....	....	29	136	56	59	52	16
17....	7.4	....	....	....	....	....	23	116	55	59	48	22
18....	8.5	....	....	....	....	....	27	113	66	56	39	59
19....	11	....	....	....	....	....	46	98	59	55	35	43
20....	9.0	....	....	....	....	....	71	96	53	42	31	24
21....	7.6	....	....	....	....	....	103	113	52	37	23	20
22....	9.0	....	....	....	....	....	116	109	59	43	23	28
23....	10	....	....	....	....	....	116	109	54	42	23	35
24....	13	....	....	....	....	....	125	111	60	34	27	33
25....	13	....	....	....	....	....	111	109	60	34	29	28
26....	14	....	....	....	....	....	131	119	82	34	34	22
27....	15	....	....	....	....	....	111	119	85	38	29	20
28....	13	....	....	....	....	....	69	116	74	40	16	20
29....	13	....	....	....	....	....	51	108	75	34	9.6	42
30....	11	....	....	....	....	....	49	106	62	42	23	47
31....	8.5	....	....	....	....	....	....	98	....	43	32	....
Total	371.4	....	....	....	....	....	1347.8	4081	2224	1551	957.6	783
Mean.	12.0	....	....	....	....	....	44.9	132	74.1	50.0	30.9	26.1
Max..	17	....	....	....	....	....	131	196	106	63	52	59
Min...	7.4	....	....	....	....	....	6.5	54	52	34	9.6	16
Acre-ft.	737	....	....	....	....	....	2670	8090	4410	3080	1900	1550

Total run-off for period=22,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek at Cedaredge, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.9	14	....	....	....	....	10	88	71	19	15	7.5
2....	8.2	13	....	....	....	....	13	77	60	18	14	6.9
3....	8.2	12	....	....	....	....	17	82	51	18	13	6.2
4....	9.4	12	....	....	....	....	19	88	51	15	13	3.4
5....	10	12	....	....	....	....	24	82	51	13	11	3.4
6....	11	12	....	....	....	....	23	77	51	24	12	16
7....	13	7.0	....	....	....	....	11	71	47	23	14	17
8....	14	5.5	....	....	....	....	9.4	67	44	26	13	12
9....	10	5.9	....	....	....	....	15	66	43	25	11	11
10....	11	8.2	....	....	....	....	15	72	38	24	11	6.9
11....	14	4.7	....	....	....	....	11	67	33	29	8.8	11
12....	14	5.0	....	....	....	....	12	59	33	29	10	12
13....	17	4.5	....	....	....	....	17	53	29	27	8.8	9.4
14....	11	4.6	....	....	....	*4.8	16	60	25	22	11	11
15....	8.8	4.8	....	....	....	....	9.4	74	22	18	8.8	6.2
16....	9.4	4.8	....	....	....	....	6.9	81	24	18	8.2	8.2
17....	10	4.2	....	....	*3.1	....	4.7	74	22	20	7.5	7.5
18....	11	4.2	....	....	....	....	8.2	74	18	23	11	5.2
19....	10	4.2	....	....	....	....	25	74	16	22	11	5.2
20....	8.2	4.0	....	....	....	....	33	91	16	28	14	4.7
21....	8.2	4.3	....	*4.5	....	....	51	89	26	29	17	4.2
22....	7.5	4.3	....	....	....	....	74	91	25	21	13	4.2
23....	7.5	4.3	....	....	....	....	66	84	28	19	8.2	3.8
24....	7.5	3.8	....	....	....	....	35	79	33	15	11	0.7
25....	6.4	4.0	....	....	....	....	26	69	24	16	14	0
26....	6.0	3.6	....	....	....	....	38	64	19	20	11	2.7
27....	6.0	4.0	....	....	....	....	57	66	18	26	10	4.7
28....	8.0	4.0	....	....	....	....	77	64	24	26	7.5	5.6
29....	11	4.0	....	....	....	....	72	71	24	25	11	8.2
30....	11	4.2	....	....	....	....	77	69	20	22	8.2	8.2
31....	12	....	....	....	....	....	....	69	....	17	8.2	....
Total	306.2	187.1	139.5	124	98	186	872.6	2292	986	677	345.2	213
Mean.	9.88	6.24	4.5	4.0	3.5	6.0	29.1	73.9	32.9	21.8	11.1	7.10
Max..	17	14	....	....	....	....	77	91	71	29	17	17
Min...	6.0	3.6	....	....	....	....	4.7	53	16	13	7.5	0
Acre-ft.	607	371	277	246	194	369	1730	4550	1960	1340	685	422

Total run-off for water year 1938-39=12,750 acre-feet.

*Discharge measurement.

Discharge of Surface Creek at Cedaredge, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.0	5.1	1.1	....	....	0.9	7.2	72	54	25	10	13
2....	9.0	5.5	1.1	....	....	.9	6.6	86	61	21	11	15
3....	8.4	5.5	1.1	....	....	.8	6.6	91	59	20	9.0	12
4....	6.6	5.5	1.1	....	....	.9	7.2	118	57	18	9.0	10
5....	4.6	4.6	1.1	....	....	1.0	8.4	118	61	16	9.6	9.6
6....	4.2	4.2	1.1	....	0.2	.8	9.6	115	54	21	11	5.5
7....	3.7	2.3	1.0	....	....	1.0	13	105	48	25	9.0	3.2
8....	4.6	2.3	1.0	....	....	1.0	11	95	46	28	11	10
9....	6.0	2.3	.8	0.5	....	.8	8.4	115	46	27	12	11
10....	6.6	2.3	.8	....	....	.8	7.2	102	38	21	10	11
11....	7.8	2.8	.7	....	....	.8	6.0	89	36	18	9.0	10
12....	7.8	2.8	.8	....	....	.8	7.2	77	35	19	9.6	7.8
13....	7.8	3.2	1.1	....	....	1.4	11	86	30	24	9.6	10
14....	7.2	3.7	2.3	....	....	1.3	25	77	29	25	8.4	6.0
15....	5.1	4.2	1.4	....	....	1.1	36	54	28	25	7.8	2.8
16....	4.6	3.2	1.4	....	....	.8	28	57	23	28	15	1.9
17....	3.7	1.9	1.3	....	....	.7	22	53	20	29	14	8.4
18....	5.1	3.2	1.1	....	....	.7	27	56	23	24	9.6	37
19....	6.6	3.7	1.0	....	....	.8	51	57	18	21	9.0	23
20....	5.1	4.2	.9	....	....	1.4	81	56	18	10	11	15
21....	3.2	3.7	.8	....	....	2.3	105	69	21	5.5	7.8	14
22....	5.5	3.2	.8	....	....	4.6	112	67	23	10	6.6	16
23....	7.2	1.9	.7	....	....	7.2	102	64	21	9.6	6.6	17
24....	8.4	1.9	.7	....	....	9.6	112	62	17	6.0	12	21
25....	7.8	2.3	.8	....	....	16	91	59	16	9.0	16	18
26....	9.0	1.9	.7	....	....	15	128	67	30	10	17	16
27....	8.4	1.4	.6	....	....	11	100	69	34	12	16	13
28....	6.6	1.1	.4	....	....	9.0	79	65	28	20	10	13
29....	7.2	1.0	.3	....	....	7.8	65	64	30	16	4.2	27
30....	6.0	1.0	.2	....	....	5.1	64	62	26	12	3.2	37
31....	4.6	....	.3	....	....	5.5	....	59	....	11	6.6	....
Total	197.4	91.9	28.5	12.4	10.2	111.8	1337.4	2386	1030	566.1	310.6	414.2
Mean.	6.37	3.06	.92	.40	.35	3.61	44.6	77.0	34.3	18.3	10.0	13.8
Max..	9.0	5.5	2.3	....	....	16	128	118	61	29	17	37
Min...	3.2	1.0	.2	....	....	.7	6.0	53	16	5.5	3.2	1.9
Acre-ft.	392	182	57	25	20	222	2650	4730	2040	1120	616	822

Total run-off for water year 1939-40=12,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Colona, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	118	144	118	82	79	77	218	560	704	311	131	50
2....	116	158	111	84	72	70	257	644	626	302	124	58
3....	116	149	111	86	74	77	299	604	752	308	118	58
4....	113	168	122	90	76	72	296	587	890	306	105	68
5....	111	177	113	85	78	65	293	668	938	302	97	83
6....	139	155	113	95	76	67	320	674	800	288	124	108
7....	180	139	105	85	78	87	260	488	728	270	315	115
8....	332	144	107	86	80	72	284	425	692	254	198	154
9....	236	163	107	80	82	76	354	492	746	250	162	154
10....	209	155	109	77	75	81	326	582	794	242	140	150
11....	203	152	107	73	76	88	254	609	806	206	128	222
12....	188	144	107	72	78	88	269	525	782	198	113	226
13....	188	122	98	75	76	116	314	438	884	198	102	214
14....	191	134	83	72	74	132	323	393	872	182	100	190
15....	218	127	88	68	76	116	266	448	782	166	90	166
16....	239	130	89	68	78	155	230	466	686	162	85	147
17....	218	130	78	75	60	218	200	405	620	147	74	134
18....	194	127	70	94	59	251	194	409	530	137	70	124
19....	183	120	94	77	70	302	218	582	438	128	70	118
20....	168	127	96	77	68	335	224	740	364	118	68	115
21....	160	127	98	72	56	332	302	800	360	108	66	102
22....	158	125	96	74	60	320	393	830	357	95	66	97
23....	152	107	94	77	66	344	434	776	368	83	64	95
24....	149	94	77	72	72	320	393	656	378	81	62	83
25....	152	109	74	69	76	287	338	502	357	81	60	81
26....	149	113	78	77	76	266	413	438	344	81	58	81
27....	147	120	78	85	76	248	368	474	344	81	58	85
28....	142	120	76	87	72	203	479	582	329	102	60	81
29....	139	120	77	78	....	206	545	650	326	147	58	92
30....	142	120	78	80	....	177	545	704	317	144	66	88
31....	139	....	80	76	....	183	....	686	....	166	62	...
Total	5289	4020	2932	2448	2039	5431	9609	17837	17914	5644	3094	3539
Mean.	171	134	94.6	79.0	72.8	175	320	575	597	182	99.8	118
Max..	332	177	122	94	82	344	545	830	938	311	315	226
Min...	111	94	70	68	56	65	194	393	317	81	58	50
Acre-ft.	10490	7970	5820	4860	4040	10770	19060	35380	35530	11190	6140	7020

Total run-off for water year 1938-39=158,300 acre-feet.

Discharge of Uncompahgre River at Colona, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	83	72	77	77	92	100	190	302	1350	376	68	80
2....	83	70	81	74	78	86	155	341	1340	318	66	72
3....	79	64	81	77	72	86	142	470	1200	302	66	82
4....	70	64	81	77	72	82	138	641	1060	275	64	80
5....	66	64	81	77	72	82	146	614	1000	270	62	78
6....	68	64	81	77	75	86	170	578	856	240	64	72
7....	62	64	81	74	78	78	155	632	811	219	62	78
8....	68	62	77	74	78	86	146	596	829	207	57	74
9....	74	68	77	74	82	96	142	740	748	207	54	68
10....	66	77	77	72	70	118	146	856	690	195	54	64
11....	70	81	77	72	75	118	134	820	766	178	51	62
12....	68	88	77	74	78	96	134	856	811	156	50	62
13....	64	90	68	72	72	78	155	784	910	142	50	70
14....	60	85	72	58	62	72	260	856	1040	142	44	66
15....	58	81	72	47	66	78	302	883	980	136	40	62
16....	56	79	72	58	70	92	296	811	838	139	46	58
17....	56	77	72	60	65	126	248	856	865	132	51	76
18....	54	70	70	61	62	126	230	643	856	150	51	195
19....	58	71	66	60	66	138	348	508	802	132	57	203
20....	60	72	68	59	62	150	497	466	706	120	112	192
21....	62	74	72	60	66	180	632	472	636	118	86	174
22....	62	74	66	64	70	195	533	460	608	112	74	227
23....	66	81	62	62	70	224	524	508	562	102	74	235
24....	68	81	68	61	70	236	515	594	532	105	88	215
25....	68	79	74	82	70	266	497	722	478	100	125	192
26....	74	81	70	93	75	248	578	775	466	98	122	181
27....	72	81	52	90	78	236	551	820	418	96	118	164
28....	70	81	50	88	78	224	376	950	370	90	98	167
29....	74	79	58	86	92	175	302	1020	358	94	94	207
30....	72	79	64	84	....	160	278	1120	382	82	88	290
31....	70	....	72	88	....	185	....	1240	....	74	88	....
Total	2081	2256	2216	2232	2116	4303	8920	21934	23268	5107	2224	3846
Mean.	67.1	75.2	71.5	72.0	73.0	139	297	708	776	165	71.7	128
Max..	83	90	81	93	92	266	632	1240	1350	376	125	290
Min...	54	62	50	47	62	72	134	302	358	74	40	58
Acre-ft.	4130	4470	4400	4430	4200	8530	17690	43510	46150	10130	4410	7630

Total run-off for water year 1939-40=159,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Delta, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	328	238	182	130	106	97	208	238	494	136	175	136
2....	316	308	156	133	99	95	257	265	397	156	147	139
3....	328	375	147	141	108	99	312	312	358	160	139	141
4....	312	366	153	133	117	104	451	227	490	156	139	141
5....	216	384	153	122	110	90	456	182	614	153	133	156
6....	300	397	153	144	108	87	466	257	447	144	125	205
7....	388	362	150	136	102	90	366	216	349	133	388	300
8....	842	345	147	139	104	108	276	122	345	125	358	300
9....	729	296	150	133	117	125	345	128	341	122	269	461
10....	609	257	153	133	110	153	384	205	358	122	235	456
11....	539	223	153	120	125	246	254	257	366	113	205	656
12....	509	198	156	120	120	219	172	238	284	102	160	392
13....	494	182	150	122	125	227	128	178	254	102	144	509
14....	475	166	128	117	136	358	141	166	284	104	139	392
15....	461	147	150	113	120	235	163	150	178	106	122	466
16....	433	208	156	113	110	261	104	175	160	120	113	456
17....	410	192	150	110	92	358	87	175	296	110	108	401
18....	442	169	139	117	108	392	92	160	257	104	104	379
19....	375	150	150	115	136	406	125	201	254	102	102	349
20....	424	153	153	115	133	475	166	384	242	99	104	337
21....	419	160	156	108	108	480	185	447	182	102	108	320
22....	379	160	160	110	117	456	223	461	166	106	108	273
23....	345	130	178	108	113	451	300	401	166	104	113	261
24....	316	113	128	106	108	466	388	288	169	104	110	216
25....	304	128	113	104	113	406	261	212	169	102	108	201
26....	312	128	122	106	110	442	133	156	172	104	104	227
27....	296	141	122	125	108	419	97	166	156	106	106	250
28....	227	160	136	128	95	308	120	231	136	110	115	269
29....	219	169	128	120	....	276	216	328	141	153	122	300
30....	223	178	130	120	....	227	250	375	136	153	120	312
31....	212	....	130	113	....	205	....	461	....	208	128	....
Total	12182	6583	4532	3754	3158	8361	7126	7762	8361	3821	4651	9401
Mean.	393	219	146	121	113	270	238	250	279	123	150	313
Max..	842	397	182	144	136	480	466	461	614	208	388	656
Min...	212	113	113	104	92	87	87	122	136	99	102	136
Acre-ft.	24160	13060	8990	7450	6260	16580	14130	15400	16580	7580	9230	18650

Total run-off for water year 1938-39=158,070 acre-feet.

Discharge of Uncompahgre River at Delta, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	326	244	144	132	129	129	106	193	750	240	150	218
2....	322	190	134	132	137	102	129	193	675	193	132	236
3....	310	173	134	150	137	96	163	240	595	153	120	229
4....	240	160	134	160	129	94	129	339	411	144	124	186
5....	453	140	150	173	127	94	115	443	322	132	127	160
6....	190	153	150	166	120	96	169	394	314	117	132	150
7....	268	156	147	156	124	96	200	385	268	132	137	160
8....	264	112	144	144	122	90	183	377	385	134	140	160
9....	297	120	147	147	115	90	147	356	416	127	127	160
10....	314	140	160	144	115	90	104	503	368	122	122	160
11....	318	134	150	137	112	94	84	494	347	117	122	156
12....	310	137	153	140	115	87	73	555	425	117	115	153
13....	301	140	150	132	96	76	65	585	347	120	110	173
14....	305	144	140	98	92	85	85	555	289	122	115	222
15....	301	144	140	94	102	85	183	555	650	124	110	297
16....	305	144	144	98	100	82	207	476	434	129	112	276
17....	301	150	153	104	96	88	144	615	335	153	108	256
18....	268	156	156	108	90	92	102	650	360	153	108	389
19....	248	153	129	102	96	104	115	411	318	150	127	512
20....	222	144	122	115	88	122	218	310	310	147	137	531
21....	244	160	140	132	94	94	448	430	310	153	115	535
22....	229	173	129	129	104	92	462	503	293	137	127	550
23....	229	169	129	120	104	94	347	476	260	150	204	560
24....	218	173	137	132	104	94	322	540	225	150	466	620
25....	214	166	156	153	108	100	272	600	211	150	476	580
26....	225	160	140	153	124	110	264	635	186	137	499	595
27....	248	160	124	147	137	79	301	580	180	127	535	555
28....	244	169	120	134	129	96	236	575	156	144	480	535
29....	268	190	117	127	134	77	180	522	144	180	343	570
30....	284	153	115	129	....	80	232	540	207	163	268	996
31....	289	....	137	132	....	80	....	665	....	160	204	....
Total	8555	4707	4325	4120	3280	2888	5785	14695	10491	4477	6192	10880
Mean.	276	157	140	133	113	93.2	193	474	350	144	200	363
Max..	453	244	160	173	137	129	462	665	750	240	535	996
Min...	190	112	115	94	88	76	65	193	144	117	108	150
Ac.-ft.	16970	9340	8580	8170	6510	5730	11470	29150	20810	8880	12280	21580

Total run-off for water year 1939-40=159,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Kannah Creek Near Whitewater, Colo., for Year Ending Sept. 30, 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	6.5	2.8	2.1	2.4	2.4	9.0	140	71	36	7.8	3.6
2....	11	6.5	2.2	2.1	2.4	2.6	9.0	180	54	34	6.6	2.8
3....	12	6.5	1.8	2.1	2.8	2.8	14	200	46	32	4.8	2.6
4....	13	6.5	2.0	2.1	3.0	2.8	14	229	42	34	4.8	2.8
5....	16	6.9	1.8	2.6	3.4	2.2	15	283	40	34	5.4	4.8
6....	13	4.2	1.6	2.8	3.2	1.8	14	301	36	36	5.4	8.4
7....	13	3.8	2.9	3.2	3.6	2.0	8.4	283	31	36	8.4	15
8....	17	4.6	4.2	3.4	3.8	2.3	11	283	29	34	6.0	11
9....	13	4.2	4.2	3.4	3.8	2.5	17	292	26	32	6.6	9.0
10....	11	6.5	4.4	3.2	3.6	2.7	14	296	28	29	7.2	7.8
11....	11	6.0	4.2	3.1	3.4	3.0	15	238	25	28	9.0	9.9
12....	11	6.0	3.8	3.0	3.2	2.8	12	212	22	28	16	9.9
13....	10	5.3	3.0	2.9	3.1	3.1	14	188	22	26	15	9.0
14....	9.1	4.8	2.6	2.9	3.1	2.9	13	204	21	22	17	9.9
15....	6.5	5.4	2.6	2.8	3.1	2.8	9.0	192	19	21	17	7.8
16....	6.0	5.6	2.8	2.8	3.2	3.4	7.8	156	18	18	16	7.2
17....	7.4	5.0	3.0	2.8	3.0	4.3	6.0	122	17	19	16	6.0
18....	6.0	4.4	3.6	2.8	2.6	5.3	7.2	148	16	26	16	4.8
19....	6.5	4.8	3.6	2.9	2.8	7.2	9.9	152	24	25	15	4.8
20....	6.9	5.0	3.8	2.9	2.4	8.4	12	133	18	28	11	4.8
21....	8.3	4.8	3.6	3.4	2.2	9.9	19	129	21	19	9.0	3.6
22....	9.1	4.4	3.2	3.6	2.2	11	26	111	19	18	9.9	3.0
23....	9.1	2.9	2.8	3.4	2.3	11	29	93	29	15	7.8	4.2
24....	8.3	1.4	2.2	3.0	2.6	11	24	82	34	15	4.8	3.0
25....	7.4	1.2	2.0	2.7	2.8	13	21	64	32	14	3.6	3.6
26....	7.4	1.2	1.9	2.8	2.8	12	25	59	38	12	2.8	3.0
27....	6.9	1.8	1.9	3.1	2.6	11	32	54	34	11	3.0	3.6
28....	6.9	2.2	2.0	3.2	2.4	8.4	48	50	36	8.4	6.0	2.8
29....	6.5	2.4	2.0	3.1	....	7.8	71	48	34	8.4	11	3.6
30....	6.5	3.0	2.0	2.8	....	7.2	104	48	38	8.4	7.8	3.0
31....	6.5	....	2.1	2.6	....	7.8	....	52	....	8.4	6.0	....
Total	295.3	133.8	86.6	89.6	81.8	177.4	630.3	5022	920	715.6	282.7	175.3
Mean.	9.53	4.46	2.79	2.89	2.92	5.72	21.0	162	30.7	23.1	9.12	5.84
Max..	17	6.9	4.4	3.6	3.8	13	104	301	71	36	17	15
Min...	6.0	1.2	1.6	2.1	2.2	1.8	6.0	48	16	8.4	2.8	2.6
Acre-ft.	586	265	172	178	162	352	1250	9960	1820	1420	561	348

Total run-off for water year 1938-39=17,070 acre-feet.

Discharge of Kannah Creek Near Whitewater, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.0	7.4	3.0	2.8	2.8	3.0	9.4	54	66	30	6.3	4.1
2....	2.5	7.4	2.6	3.0	2.8	2.8	6.8	57	59	30	6.3	3.0
3....	2.5	7.4	2.6	3.0	2.8	2.5	5.8	76	59	30	4.6	2.5
4....	3.0	6.3	2.5	3.2	2.8	2.8	5.8	111	54	26	4.1	3.6
5....	3.0	5.2	2.2	3.3	2.5	2.5	5.8	140	50	20	5.2	3.6
6....	3.6	5.2	2.3	3.2	2.3	2.5	5.2	188	45	20	13	4.1
7....	3.6	5.2	2.8	3.1	2.8	2.2	4.6	212	41	18	17	4.6
8....	5.2	5.2	2.8	2.9	2.6	2.5	8.5	244	37	20	16	2.0
9....	4.6	6.3	2.8	2.8	2.6	2.5	9.4	305	34	27	27	2.0
10....	4.1	5.2	2.5	2.7	2.8	2.8	4.6	341	30	27	26	1.8
11....	4.1	5.2	2.5	3.0	2.8	2.8	3.0	395	26	26	18	1.5
12....	4.1	4.6	2.5	2.8	2.8	2.2	3.6	458	25	22	14	1.2
13....	4.1	5.2	1.8	2.7	2.5	1.8	5.8	485	24	21	16	4.6
14....	4.1	5.2	2.5	2.3	2.8	1.7	14	503	22	18	14	5.2
15....	4.1	4.6	2.4	1.5	2.8	2.1	20	494	21	15	16	5.2
16....	4.1	4.3	2.8	1.9	2.8	2.8	15	494	20	21	18	4.1
17....	4.1	4.0	2.5	2.2	2.4	3.0	12	413	17	27	17	3.0
18....	4.1	3.5	.8	2.4	2.2	3.0	15	359	16	22	14	5.8
19....	3.0	2.8	.8	2.4	2.5	4.1	25	377	15	17	8.5	10
20....	3.0	3.2	1.8	2.5	2.5	5.2	37	350	15	15	7.4	10
21....	3.0	3.5	1.2	2.4	2.8	5.8	48	305	22	12	7.4	8.5
22....	2.8	3.4	2.2	2.4	2.5	7.4	48	296	21	13	8.0	6.3
23....	2.8	3.2	2.8	2.3	2.5	8.5	59	314	21	10	11	5.8
24....	3.0	3.0	2.2	2.4	2.5	11	74	305	20	11	13	5.2
25....	8.0	2.8	1.5	2.6	2.5	12	79	260	24	11	14	4.6
26....	8.0	2.8	.8	2.8	3.0	12	98	196	25	10	12	3.6
27....	6.3	2.8	1.8	3.0	3.0	11	93	160	25	10	12	4.1
28....	5.2	2.8	2.0	2.5	3.0	8.0	66	133	37	15	7.4	6.8
29....	7.4	2.8	2.2	3.0	3.6	7.4	57	98	41	14	6.8	13
30....	7.4	2.8	2.4	3.0	....	6.8	54	82	39	10	6.8	17
31....	7.4	....	2.6	2.8	....	8.5	....	71	....	7.4	6.8	....
Total	135.2	133.3	68.2	82.9	78.3	153.2	892.3	8276	951	575.4	373.6	156.8
Mean.	4.36	4.44	2.20	2.67	2.70	4.94	29.7	267	31.7	18.6	12.1	5.23
Max..	8.0	7.4	3.0	3.3	3.6	12	98	503	66	30	27	17
Min...	2.5	2.8	.8	1.5	2.2	1.7	3.0	54	15	7.4	4.1	1.2
Acre-ft.	268	264	135	164	155	304	1770	16420	1890	1140	741	311

Total run-off for water year 1939-40=23,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Robideau Creek Near Delta, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	21	444	37	4.4	4.4	3.6
2....	....	....	....	....	....	....	33	409	34	5.1	4.4	3.6
3....	....	....	....	....	....	....	55	393	28	5.6	4.2	3.6
4....	....	....	....	....	....	....	93	374	25	4.9	4.2	3.8
5....	....	....	....	....	....	....	119	367	24	5.1	4.2	4.4
6....	....	....	....	....	....	....	126	355	22	4.9	4.7	5.4
7....	....	....	....	....	....	....	106	267	19	4.9	4.7	6.5
8....	....	....	....	....	....	....	103	219	16	5.1	4.7	9.4
9....	....	....	....	....	....	....	143	200	15	5.1	4.9	8.1
10....	....	....	....	....	....	....	168	203	14	4.9	4.9	9.0
11....	....	....	....	....	....	....	132	198	13	4.7	4.7	9.4
12....	....	....	....	....	....	....	124	176	12	4.4	4.7	8.1
13....	....	....	....	....	....	....	161	154	9.8	5.1	4.2	8.6
14....	....	....	....	....	....	....	192	141	8.6	4.7	3.9	8.6
15....	....	....	....	....	....	....	154	134	7.7	4.7	3.8	11
16....	....	....	....	....	....	....	126	128	8.6	4.4	3.8	11
17....	....	....	....	....	....	....	103	115	5.6	4.2	3.8	10
18....	....	....	....	....	....	....	101	106	6.0	3.9	3.6	9.8
19....	....	....	....	....	....	....	122	99	5.8	3.9	3.8	11
20....	....	....	....	....	....	....	147	106	7.7	3.9	3.8	11
21....	....	....	....	....	....	....	209	98	9.0	3.9	4.0	11
22....	....	....	....	....	....	....	288	85	9.0	3.9	5.1	10
23....	....	....	....	....	....	....	333	75	7.3	3.9	6.5	11
24....	....	....	....	....	....	....	284	64	6.5	3.8	5.6	13
25....	....	....	....	....	....	....	257	56	6.0	3.9	5.4	14
26....	....	....	....	....	....	....	257	49	6.3	4.2	4.4	14
27....	....	....	....	....	....	....	302	42	6.0	4.7	4.2	13
28....	....	....	....	....	....	29	393	41	5.6	4.9	4.4	12
29....	....	....	....	....	....	39	416	35	5.4	4.7	4.2	11
30....	....	....	....	....	....	28	432	33	5.1	4.4	3.8	11
31....	....	....	....	....	....	23	....	37	....	4.4	3.8	....
Total	....	....	....	....	....	....	5500	5203	385.0	140.6	136.8	275.9
Mean.	....	....	....	....	....	....	183	168	12.8	4.54	4.41	9.20
Max..	....	....	....	....	....	....	432	444	37	5.6	6.5	14
Min...	....	....	....	....	....	....	21	33	5.1	3.8	3.6	3.6
Acre-ft.	....	....	....	....	....	....	10910	10320	764	279	271	547

Total run-off for period=23,091 acre-feet.

Discharge of Roubideau Creek Near Delta, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	8.6	1.6	0.9	0.8	1.6	6.7	146	80	5.5	5.5	4.9
2....	10	3.3	1.2	.9	.8	1.7	10	163	70	5.2	5.8	3.8
3....	10	4.0	1.2	1.4	.9	1.7	7.0	213	63	5.2	5.2	3.3
4....	4.6	5.8	1.2	1.4	.9	1.4	5.8	347	58	6.1	4.3	3.6
5....	7.4	5.2	1.2	1.1	1.0	1.5	5.2	415	47	5.8	4.6	4.0
6....	4.0	5.2	1.2	.9	1.1	1.6	7.0	404	43	5.5	4.3	4.3
7....	6.1	2.2	1.4	.9	1.1	1.6	7.4	434	38	5.5	4.0	4.0
8....	6.4	6.4	1.5	.8	1.1	2.5	8.6	401	36	5.5	4.3	3.6
9....	8.6	8.6	1.6	.8	.7	2.0	5.8	460	36	5.2	3.6	4.3
10....	8.2	2.7	1.6	.8	.7	3.8	7.8	488	35	4.9	3.6	4.3
11....	5.2	2.0	1.7	.5	.8	6.7	16	508	32	5.5	4.0	4.9
12....	2.5	2.9	2.5	.5	.8	11	17	488	23	5.2	4.3	5.2
13....	3.3	3.1	1.8	.4	.6	11	11	464	19	4.9	4.9	4.0
14....	6.4	3.6	1.5	.4	.6	9.0	20	422	16	4.9	4.9	6.1
15....	3.8	3.6	1.4	.4	.8	6.4	36	354	16	5.2	4.9	7.8
16....	3.3	1.7	1.2	.4	.8	5.8	47	351	17	8.6	4.6	8.2
17....	2.9	1.6	1.1	.4	.7	4.0	40	422	13	22	4.6	10
18....	2.9	1.6	1.1	.3	1.0	5.8	35	368	10	9.0	5.8	10
19....	3.3	1.8	1.1	.3	.9	4.0	36	300	10	7.4	5.5	8.2
20....	2.7	1.6	1.1	.4	1.2	1.5	60	245	10	7.8	4.0	8.2
21....	2.7	1.7	.8	.5	1.2	1.4	139	233	8.6	7.0	3.8	9.0
22....	2.7	1.7	.8	.6	1.1	2.0	196	218	8.2	7.0	4.6	11
23....	3.1	1.6	.7	.6	1.2	3.3	213	196	7.8	7.4	4.6	12
24....	2.5	1.6	.7	.6	1.2	3.8	270	180	7.4	6.7	4.6	18
25....	3.1	1.6	.6	.7	1.4	2.5	313	163	6.1	6.1	4.0	26
26....	3.1	1.6	.8	.9	2.0	2.9	358	153	6.1	6.1	4.3	22
27....	5.8	1.6	1.2	.8	1.8	4.3	361	142	5.8	5.8	3.8	18
28....	4.9	1.6	1.4	.8	1.8	13	257	133	5.2	7.0	3.8	19
29....	7.0	1.6	1.7	.7	1.6	10	204	118	5.8	7.4	3.8	20
30....	7.8	1.6	1.7	.7	....	6.4	170	102	7.8	7.0	3.8	104
31....	9.0	....	1.4	.7	....	5.5	....	90	....	6.7	3.8	....
Total	164.3	91.7	40.0	21.5	30.6	139.7	2870.3	9121	740.8	209.1	137.6	371.7
Mean.	5.30	3.06	1.29	.69	1.06	4.51	95.7	294	24.7	6.75	4.44	12.4
Max..	11	8.6	2.5	1.4	2.0	13	361	508	80	22	5.8	104
Min...	2.5	1.6	.6	.3	.6	1.4	5.2	90	5.2	4.9	3.6	3.3
Acre-ft.	326	182	79	43	61	277	5690	18090	1470	415	273	737

Total run-off for water year 1939-40=27,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Robideau Creek at Mouth Near Delta, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	56	604	91	44	55	44
2....	....	....	....	....	....	....	76	555	93	47	55	44
3....	....	....	....	....	....	....	107	514	82	50	47	44
4....	....	....	....	....	....	....	153	466	80	45	48	38
5....	....	....	....	....	....	....	196	456	82	45	47	45
6....	....	....	....	....	....	....	256	453	70	41	48	74
7....	....	....	....	....	....	....	202	350	68	41	72	102
8....	....	....	....	....	....	....	150	283	66	44	102	119
9....	....	....	....	....	....	....	214	262	60	45	89	122
10....	....	....	....	....	....	....	277	262	62	40	74	129
11....	....	....	....	....	....	....	211	253	64	40	53	158
12....	....	....	....	....	....	....	181	226	66	36	45	137
13....	....	....	....	....	....	....	259	202	45	38	41	140
14....	....	....	....	....	....	....	354	190	47	38	40	134
15....	....	....	....	....	....	....	316	187	52	40	41	170
16....	....	....	....	....	....	....	250	187	68	38	38	150
17....	....	....	....	....	....	....	184	161	68	37	38	137
18....	....	....	....	....	....	....	153	140	66	36	36	129
19....	....	....	....	....	....	....	184	129	74	36	41	129
20....	....	....	....	....	....	....	232	129	76	38	38	134
21....	....	....	....	....	....	Mar. 23	274	117	56	37	42	132
22....	....	....	....	....	....	to 31	392	105	47	41	40	129
23....	....	....	....	....	....	60	501	102	50	38	38	127
24....	....	....	....	....	....	76	434	91	55	41	36	132
25....	....	....	....	....	....	76	363	91	52	37	34	134
26....	....	....	....	....	....	74	354	80	50	41	32	134
27....	....	....	....	....	....	91	402	72	45	45	35	127
28....	....	....	....	....	....	87	546	74	44	50	38	117
29....	....	....	....	....	....	82	558	72	44	68	44	112
30....	....	....	....	....	....	74	601	70	44	72	41	110
31....	....	....	....	....	....	58	....	80	....	72	40	....
Total	....	....	....	....	....	678	8436	6963	1867	1361	1468	3433
Mean.	....	....	....	....	....	75.3	281	225	62.2	43.9	47.4	114
Max..	....	....	....	....	....	91	601	604	93	72	102	170
Min...	....	....	....	....	....	58	56	70	44	36	32	38
Acre-ft.	....	....	....	....	....	1340	16730	13810	3700	2700	2910	6810

Total run-off for period=48,000 acre-feet.

Discharge of Roubideau Creek at Mouth Near Delta, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	114	105	53	40	30	25	74	226	132	53	70	78
2....	117	52	55	48	30	30	91	256	127	44	66	66
3....	122	62	58	45	31	38	68	316	124	44	56	56
4....	74	70	58	40	32	38	50	530	110	64	53	52
5....	112	56	58	34	32	37	38	628	98	62	55	48
6....	76	52	60	29	31	35	53	618	89	48	52	47
7....	105	40	60	26	31	36	68	676	91	50	55	52
8....	105	56	60	26	31	45	58	587	105	55	52	50
9....	102	82	60	27	28	44	38	669	122	47	52	50
10....	85	102	48	27	28	45	50	696	129	45	45	50
11....	87	78	45	28	28	52	85	706	117	52	45	48
12....	96	74	44	36	27	56	62	642	98	55	38	72
13....	96	74	44	29	26	55	41	552	80	45	37	82
14....	93	76	44	28	31	45	42	523	62	48	38	110
15....	89	76	42	27	40	47	68	472	72	47	64	119
16....	82	72	40	27	37	44	89	475	70	52	55	105
17....	78	68	40	24	36	41	76	578	53	82	40	117
18....	82	62	40	23	34	42	53	488	48	56	55	142
19....	91	62	37	23	35	32	53	418	40	52	66	124
20....	110	64	38	26	31	17	96	354	47	58	55	132
21....	102	64	40	26	29	30	184	344	45	70	35	140
22....	93	68	40	24	30	36	271	325	44	70	52	142
23....	82	64	38	24	31	27	292	295	44	64	100	145
24....	72	64	38	22	27	40	357	271	47	68	110	150
25....	80	62	40	26	26	52	421	256	41	62	72	158
26....	96	60	32	24	29	45	491	235	37	60	74	147
27....	91	60	31	24	27	45	546	217	38	48	74	132
28....	93	58	32	25	26	70	402	170	40	68	70	129
29....	110	47	31	26	26	68	310	153	42	87	70	137
30....	110	55	31	27	....	64	265	145	62	82	74	370
31....	117	....	30	28	....	44	....	134	....	82	85	....
Total	2962	1985	1367	889	880	1325	4792	12955	2254	1820	1865	3250
Mean.	95.5	66.2	44.1	28.7	30.3	42.7	160	418	75.1	58.7	60.2	108
Max..	122	105	60	48	40	70	546	706	132	87	110	370
Min...	74	40	30	22	26	17	38	134	37	44	35	47
Acre-ft.	5880	3940	2710	1760	1750	2630	9500	25700	4470	3610	3700	6450

Total run-off for water year 1939-40=72,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Dolores, Colo., for Year Ending Sept. 30, 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	107	107	83	42	44	46	263	1260	953	132	97	73
2....	107	120	78	41	40	50	356	1320	888	129	79	70
3....	116	96	67	47	36	52	502	1250	894	131	68	59
4....	113	97	80	46	39	55	588	1290	946	131	68	55
5....	111	113	85	41	35	54	620	1480	1010	127	69	57
6....	120	84	90	50	52	50	661	1610	870	120	70	91
7....	140	85	80	50	54	54	536	1230	740	114	113	202
8....	219	90	70	55	53	56	588	1220	661	105	118	248
9....	204	107	66	52	41	56	763	1340	609	100	88	240
10....	173	113	55	50	32	58	703	1470	578	96	74	182
11....	165	96	45	48	35	56	542	1490	552	92	66	272
12....	158	80	40	47	40	62	604	1350	516	84	60	341
13....	160	76	45	46	42	72	718	1180	488	78	55	308
14....	169	59	50	46	44	86	724	1010	465	70	53	248
15....	176	92	50	50	47	90	552	987	422	70	54	189
16....	202	102	56	39	50	96	492	960	371	76	51	156
17....	200	104	52	38	55	140	438	846	322	70	47	132
18....	176	97	53	43	54	190	469	822	287	62	45	114
19....	158	88	51	50	46	210	588	1070	257	53	44	98
20....	145	102	63	62	41	230	646	1270	240	49	42	96
21....	138	98	58	60	36	270	858	1270	221	49	41	92
22....	132	91	56	54	39	310	1110	1330	209	49	42	86
23....	125	76	80	48	44	360	1180	1300	202	50	41	80
24....	118	60	40	44	46	383	926	1140	200	50	40	72
25....	113	67	44	39	56	386	804	894	198	49	40	72
26....	111	50	42	41	69	398	858	792	182	48	48	86
27....	109	60	43	42	62	356	953	816	167	52	53	113
28....	107	60	44	40	55	278	1140	858	154	74	59	109
29....	100	60	47	36	....	254	1300	876	143	147	73	96
30....	98	75	47	35	....	214	1270	966	134	138	94	85
31....	100	....	43	40	....	216	....	946	....	118	78	....
Total	4370	2605	1803	1422	1287	5188	21752	35643	13879	2713	1970	4122
Mean.	141	86.8	58.2	45.9	46.0	167	725	1150	463	87.5	63.5	137
Max..	219	120	90	62	69	398	1300	1610	1010	147	118	341
Min...	98	50	40	35	32	46	263	792	134	48	40	55
Acre-ft.	8670	5170	3580	2820	2550	10290	43140	70700	27530	5380	3910	8180

Total run-off for water year 1938-39=191,900 acre-feet.

Discharge of Dolores River at Dolores, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	73	60	37	24	35	45	207	792	1690	226	178	61
2....	67	60	38	24	35	50	191	1000	1670	200	184	62
3....	64	59	39	24	35	50	169	1120	1530	180	176	91
4....	61	58	38	25	36	54	169	1310	1410	167	173	82
5....	60	57	40	25	29	50	191	1440	1240	160	171	70
6....	57	58	33	23	27	44	191	1340	1140	151	180	62
7....	55	58	31	17	40	49	191	1580	994	136	191	68
8....	60	53	30	21	37	51	195	1430	912	154	180	66
9....	73	57	32	23	37	65	209	1450	840	176	169	57
10....	69	57	28	26	37	60	229	1690	729	173	154	55
11....	61	48	26	30	38	59	232	1680	687	167	154	49
12....	61	50	26	27	37	58	269	1650	677	160	138	52
13....	60	53	20	24	36	54	345	1640	682	158	122	57
14....	57	50	22	20	40	61	492	1870	687	156	116	59
15....	56	44	20	27	43	60	635	1860	661	180	118	60
16....	55	40	21	28	40	65	573	1840	562	180	125	59
17....	53	40	22	29	39	74	426	1860	512	191	134	68
18....	51	40	21	28	41	76	465	1750	483	195	136	237
19....	51	38	20	21	43	82	729	1420	438	184	145	383
20....	48	38	20	27	38	94	1060	1290	410	173	158	333
21....	48	47	21	30	45	111	1310	1220	379	180	158	269
22....	47	49	21	22	46	131	1290	1230	375	171	109	315
23....	46	46	17	25	45	156	1360	1260	345	171	82	298
24....	45	43	16	28	45	184	1250	1460	308	184	100	263
25....	47	39	22	31	46	212	1160	1500	278	189	123	237
26....	68	44	20	31	47	234	1190	1500	257	169	160	204
27....	69	46	18	32	48	243	1260	1670	234	167	136	195
28....	55	40	20	32	45	224	946	1710	214	165	107	184
29....	55	42	21	33	45	184	810	1540	202	219	90	254
30....	57	38	22	33	....	169	713	1560	219	195	73	301
31....	57	....	23	34	....	189	....	1670	....	182	64	....
Total	1786	1452	785	824	1155	3238	18457	46332	20765	5459	4304	4551
Mean.	57.6	48.4	25.3	26.6	39.8	104	615	1495	692	176	139	152
Max..	73	60	40	34	48	243	1360	1870	1690	226	191	383
Min...	45	38	16	17	27	44	169	792	202	136	64	49
Acre-ft.	3540	2880	1560	1630	2290	6420	36610	91900	41190	10830	8540	9030

Total run-off for water year 1939-40=216,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River Near McPhee, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.0	14	79	25	33	44	551	1040	512	5.3	5.0	5.3
2....	7.0	27	64	23	30	42	630	1100	438	4.6	5.0	4.6
3....	7.0	32	61	32	22	44	961	979	431	4.8	4.8	4.4
4....	7.0	26	68	31	31	42	1090	1000	475	5.0	93	4.3
5....	7.0	32	80	21	15	40	908	1160	574	4.8	20	5.9
6....	7.0	32	76	22	22	42	821	1280	431	4.3	12	10
7....	13	101	72	27	50	44	582	900	263	4.4	10	48
8....	54	79	61	.36	45	46	582	856	168	4.0	18	42
9....	105	79	61	30	35	48	804	935	116	3.8	9.7	33
10....	79	57	45	30	15	50	786	1070	79	4.0	7.4	10
11....	75	38	42	29	20	48	543	1140	64	4.0	7.8	33
12....	72	27	33	29	30	50	590	996	34	4.0	8.1	137
13....	66	40	36	28	33	52	719	812	19	4.0	7.1	90
14....	64	35	47	29	35	60	752	606	16	4.0	6.6	40
15....	68	101	42	30	38	80	520	551	12	4.4	6.6	12
16....	90	109	52	26	42	98	424	512	14	3.3	6.1	8.1
17....	101	75	47	20	45	200	324	409	12	3.6	5.3	7.8
18....	79	72	48	23	48	300	468	352	11	3.2	5.0	6.8
19....	61	50	35	29	37	400	497	590	9.7	2.7	4.8	5.9
20....	50	68	61	36	25	528	497	847	10	2.1	4.8	5.7
21....	40	54	48	41	20	744	769	873	10	2.2	5.3	5.5
22....	38	42	50	34	28	882	1080	935	11	2.1	5.0	5.5
23....	32	54	72	30	33	1080	1170	935	10	2.4	4.8	4.8
24....	24	16	25	28	33	1130	882	752	10	3.2	5.3	5.0
25....	15	22	30	24	39	1140	727	497	9.4	3.8	4.4	5.0
26....	13	48	35	25	55	944	778	352	9.7	4.6	4.0	6.1
27....	11	57	33	29	48	795	821	345	8.1	5.0	5.3	7.1
28....	10	57	31	31	45	528	952	380	8.1	9.0	7.1	14
29....	14	59	25	25	....	543	1090	402	7.1	11	6.6	7.8
30....	12	70	26	25	....	453	1080	497	5.5	10	11	6.8
31....	13	....	30	30	....	438	....	512	....	5.0	6.4	....
Total	1241.0	1573	1515	878	952	10935	22398	23615	3777.6	138.6	312.3	581.4
Mean.	40.0	52.4	48.9	28.3	34.0	353	747	762	126	4.47	10.1	19.4
Max..	105	109	80	41	55	1140	1170	1280	574	11	93	137
Min...	7	14	25	20	15	40	324	345	5.5	2.1	4.0	4.3
Acre-ft.	2460	3120	3000	1740	1890	21690	44430	46840	7490	275	619	1150

Total run-off for water year 1938-39=134,700 acre-feet.

Discharge of Dolores River Near McPhee, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.1	6.1	4.4	25	5.0	50	224	970	1220	10	3.0	3.8
2....	5.5	6.6	4.3	25	5.0	30	86	1180	1210	7.1	3.0	4.3
3....	5.5	6.4	4.8	10	5.0	30	68	1210	1080	6.6	2.8	5.7
4....	21	6.6	4.6	10	5.0	30	132	1370	961	5.9	2.7	5.5
5....	19	6.4	4.0	10	5.0	31	263	1510	786	7.1	2.1	4.1
6....	19	6.4	4.8	10	5.0	19	388	1260	678	6.1	2.6	3.6
7....	6.8	6.6	4.1	10	5.0	18	416	1520	535	5.5	5.7	3.5
8....	7.8	7.1	4.1	10	5.0	16	380	1350	445	4.6	5.9	3.2
9....	6.8	8.1	4.1	10	5.0	17	359	1280	359	4.0	5.9	3.2
10....	6.8	7.4	4.6	10	42	22	289	1500	237	4.1	5.7	2.9
11....	7.4	6.8	4.6	27	43	22	256	1530	180	3.8	5.9	3.0
12....	6.4	6.4	5.0	27	44	16	317	1460	168	4.6	4.4	3.0
13....	6.8	6.1	4.3	27	45	16	416	1410	168	4.6	4.3	3.5
14....	6.6	6.1	4.3	27	45	15	606	1620	187	4.1	4.0	3.2
15....	6.4	5.9	4.0	27	40	15	812	1620	168	4.1	3.8	3.0
16....	5.9	5.7	4.0	27	40	18	804	1630	94	4.4	3.8	3.2
17....	5.7	5.3	4.0	27	40	26	662	1640	55	4.4	3.3	3.8
18....	5.5	5.0	4.0	27	41	29	662	1580	32	5.3	2.8	28
19....	5.3	5.5	4.0	28	41	23	1010	1260	13	5.3	2.9	289
20....	5.0	5.9	4.0	28	41	27	1420	1040	8.4	4.6	4.4	270
21....	5.0	5.7	4.0	29	42	42	1660	917	5.9	4.4	5.3	163
22....	4.8	5.5	4.0	29	47	68	1550	917	8.7	4.0	5.3	224
23....	4.6	5.0	4.0	29	47	86	1580	917	10	3.8	6.1	187
24....	4.8	5.5	4.0	30	47	126	1500	1120	8.7	4.0	9.4	137
25....	5.3	4.4	4.0	30	48	174	1360	1150	8.7	5.0	9.7	90
26....	7.1	4.3	4.0	30	50	237	1340	1100	9.0	3.5	11	54
27....	13	4.6	4.0	31	50	289	1410	1230	8.7	4.3	7.8	42
28....	7.8	4.6	4.0	5	50	296	1090	1280	7.8	4.1	6.6	38
29....	6.4	4.6	25	5	50	180	1110	1110	8.4	4.0	5.7	90
30....	6.1	4.6	25	5	....	193	1010	1100	9.4	4.1	4.6	439
31....	5.9	....	25	5	....	289	....	1090	....	3.0	4.1	....
Total	236.1	175.2	193.0	630	938	2450	23180	39971	8669.7	150.4	154.6	2113.5
Mean.	7.62	5.84	6.23	20.3	32.3	79.0	773	1289	289	4.85	4.99	70.4
Max...	21	8.1	25	31	50	296	1660	1640	1220	10	11	439
Min...	4.6	4.3	4	5	5	15	68	917	5.9	3	2.1	2.9
Acre-ft.	468	348	383	1250	1860	4860	45980	79280	17200	298	307	4190

Total run-off for water year 1939-40=156,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Gateway, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	182	176	174	128	132	171	1220	2120	950	241	112	132
2....	185	182	202	130	134	182	1580	2060	930	220	110	107
3....	202	213	209	143	110	192	2180	2040	902	213	93	99
4....	165	189	206	179	116	196	3040	1990	911	209	86	80
5....	165	182	223	174	122	200	3870	1860	945	209	83	84
6....	168	182	230	152	154	210	3610	1910	988	196	136	182
7....	202	185	192	202	176	225	2780	2080	1000	185	238	1180
8....	364	162	196	182	192	250	2140	1960	893	176	330	628
9....	416	145	206	175	185	370	2040	1610	812	174	182	388
10....	380	185	223	165	182	500	2260	1460	760	168	120	448
11....	356	213	220	160	165	444	2060	1570	733	165	103	658
12....	356	234	216	154	176	460	1710	1720	720	160	91	610
13....	303	270	174	130	162	416	1590	1720	685	150	81	513
14....	274	216	152	141	209	534	1700	1490	707	136	75	436
15....	259	168	154	140	176	547	1670	1270	694	126	70	372
16....	252	199	174	135	174	468	1460	1170	632	118	67	326
17....	256	209	230	130	182	484	1170	1090	530	118	65	303
18....	259	192	220	139	179	539	1020	988	522	114	62	281
19....	270	182	202	141	150	623	982	906	428	107	59	252
20....	307	227	216	152	174	755	1090	884	356	96	58	230
21....	296	227	248	176	174	884	1180	1160	299	90	56	199
22....	281	216	230	196	174	1300	1400	1370	263	86	55	176
23....	263	171	206	209	176	1760	1830	1420	252	83	57	162
24....	245	124	168	179	171	2050	2000	1400	277	81	56	150
25....	230	120	136	171	171	2300	1860	1260	296	78	55	152
26....	220	152	136	152	189	2250	1540	1180	303	79	53	160
27....	220	171	103	132	182	2550	1480	920	299	78	52	168
28....	209	157	116	139	182	2250	1540	834	277	78	68	174
29....	202	154	139	150	....	1810	1700	848	259	83	619	185
30....	189	165	139	160	....	1470	2010	902	256	94	341	196
31....	182	....	132	154	....	1240	....	970	....	120	189	....
Total	7858	5568	5772	4870	4669	27630	55712	44162	17879	4231	3822	9031
Mean.	253	186	186	157	167	891	1857	1425	596	136	123	301
Max..	416	270	248	209	209	2550	3870	2120	1000	241	619	1180
Min...	165	120	103	128	110	171	982	834	252	78	52	80
Acre-ft.	15590	11040	11450	9660	9260	54800	110500	87590	35460	8390	7580	17910

Total run-off for water year 1938-39=379,200 acre-feet.

Discharge of Dolores River at Gateway, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	147	122	114	108	196	296	790	3200	2700	356	136	78
2....	145	124	110	112	220	274	1020	3090	2880	337	128	79
3....	145	122	110	114	260	248	817	2730	2730	292	122	185
4....	143	120	112	114	227	241	614	2860	2200	270	112	154
5....	141	122	110	122	180	206	597	3320	2100	263	105	110
6....	139	124	112	118	145	192	707	3200	1890	256	124	103
7....	118	124	114	116	160	192	945	3050	1630	241	145	74
8....	114	118	112	112	160	192	1110	3060	1510	230	139	64
9....	114	118	112	110	150	196	1040	2820	1230	227	124	69
10....	112	118	114	108	143	202	1120	2730	1220	216	112	86
11....	114	118	116	106	140	192	1210	2990	1370	157	94	81
12....	114	107	112	165	150	189	1100	3430	1230	141	84	79
13....	112	103	110	152	141	185	1200	2960	884	136	73	83
14....	112	103	105	128	132	176	1540	2970	880	130	68	84
15....	112	103	98	93	141	168	1900	3120	920	126	64	90
16....	112	105	103	88	157	162	2210	3060	880	171	56	84
17....	112	112	103	118	141	154	2010	3120	795	326	51	84
18....	112	118	108	116	139	157	1700	3220	738	192	45	141
19....	112	116	105	96	152	160	2000	2970	724	185	54	345
20....	110	114	90	126	168	160	2660	2710	654	165	53	400
21....	110	110	90	107	154	168	3570	2540	597	152	56	412
22....	110	112	87	141	147	185	4020	2280	551	143	58	667
23....	108	114	98	143	168	206	3790	2080	526	139	79	632
24....	108	114	99	120	209	213	3670	2100	468	132	185	518
25....	103	114	107	145	256	252	3830	2060	452	128	139	509
26....	116	118	87	157	388	337	3600	2050	428	120	341	432
27....	299	118	90	174	839	488	3410	2440	384	108	390	345
28....	165	120	94	174	460	720	3220	2730	345	112	154	315
29....	130	118	90	171	318	812	2910	2730	322	152	139	950
30....	122	116	98	160	....	760	2840	2500	380	147	108	1330
31....	124	....	103	165	....	680	....	2470	....	143	103	....
Total	3935	3465	3213	3979	6241	8763	61150	86590	33618	5893	3641	8583
Mean.	127	116	104	128	215	283	2038	2793	1121	190	117	286
Max..	299	124	116	174	839	812	4020	3430	2880	356	390	1330
Min...	103	103	87	88	132	154	597	2050	322	108	45	64
Acre-ft.	7800	6870	6370	7890	12380	17380	121300	171700	66680	11690	7220	17020

Total run-off for water year 1939-40=454,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

GREEN RIVER BASIN

GREEN RIVER NEAR LINWOOD, UTAH

Location—Water stage recorder in SW¼ Sec. 29, T. 3 N., R. 21 E., 2 miles south of Wyoming-Utah line, and 5 miles southeast of Linwood. Henry's Fork enters ¼ mile downstream.

Drainage Area—14,300 square miles. Zero of gage is 5,844.64 feet above mean sea level.

Record Available—October, 1928, to September 30, 1940.

Maximum discharge observed during period 1928-40; 15,200 second feet, June 4, 1936. Gage height 10.11 feet.

Maximum Discharge—Year 1939; 5,380 second feet, May 14, 1939. Gage height 5.30 feet.

Maximum Discharge—Year 1940; 4,340 second feet, May 31, 1940. Gage height 4.65 feet.

Accuracy—Records considered good except those for periods of ice effect, November 11, 1938, to March 23, 1939, and December 13, 1939, to March 15, 1940, which were computed on basis of 3 and 2 discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

ELK RIVER AT CLARK, COLORADO

Location—Water stage recorder in Sec. 28, T. 9 N., R. 85 W., at Clark.

Drainage Area—206 square miles. Altitude, 7,300 feet above mean sea level.

Records Available—May 1, 1910, to September 30, 1922; April 23, 1930, to September 30, 1940.

Maximum daily discharge observed during period 1910-22, 1930-40; 4,470 second feet, June 6, 9, 1912.

Maximum Discharge—Year 1939; 1,860 second feet, May 19, 1939. Gage height 4.22 feet.

Maximum Discharge—Year 1940; 2,680 second feet, May 13, 1940. Gage height 4.63 feet.

Accuracy—Records considered excellent except for periods of ice effect, November 22 to December 3, 12-19, 25-31, 1938 (computed on basis of weather records), and those for period of missing gage heights April 1-17, 1938. Those for period of ice effect December 20, 1939, to March 6, 1940, computed by comparison with records for Yampa River at Steamboat Springs and Maybell, and weather records, and are fair.

Practically no diversions above station.

LITTLE SNAKE RIVER NEAR DIXON, WYOMING

Location—Water stage recorder in Sec. 6, T. 12 N., R. 90 W., 1 mile west of Dixon on road from Baggs to Dixon. Willow Creek enters Little Snake River 1/8 mile below station.

Drainage Area—988 square miles. Zero of gage is 6,332.81 feet above mean sea level.

Records Available—1910 to 1923, March 15, 1938, to September 30, 1940.

Maximum Discharge—Year 1939; 3,290 second feet, May 2, 1939. Gage height 5.44 feet.

Maximum Discharge—Year 1940; 3,470 second feet, May 13, 1940. Gage height 5.58 feet.

Accuracy—Records considered excellent above 30 second feet; good below. Those for period of ice effect, November 7, 1938, to March 22, 1939, computed on basis of 3 discharge measurements and weather records, and for December 13-14, 25, 1939, to March 1, 1940, computed on basis of 2 measurements and weather records, and which are fair.

LITTLE SNAKE RIVER NEAR LILY, COLORADO

Location—Water stage recorder in Sec. 20, T. 7 N., R. 98 W., 6 miles north of Lily and 6 miles above mouth, at highway bridge.

Drainage Area—3,730 square miles.

Records Available—June to August, 1904; May 1, 1922, to September 30, 1940.

Maximum discharge observed during period 1904, 1922-40; 14,200 second feet, May 28, 1926. Gage height 10.5 feet.

Maximum Discharge—Year 1939; 3,670 second feet, May 3, 1939. Gage height 4.50 feet.

Maximum Discharge—Year 1940; 3,520 second feet, May 14, 1940. Gage height 4.43 feet.

Accuracy—Records considered good except those for period of ice effect, November 23, 1938, to March 26, 1939, computed on basis of 2 discharge measurements, and weather records, and those for ice period December 9, 1939, to March 21, 1940, computed on basis of two discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

SLATER FORK NEAR SLATER, COLORADO

Location—Water stage recorder in SW1/4 Sec. 21, T. 12 N., R. 89 W., 1 1/2 miles south of Slater and about 1 mile above mouth.

Drainage Area—161 square miles.

Records Available—May, 1910, to May, 1912; June, 1931, to September 30, 1940.

Maximum discharge observed during period 1910-12, 1931-40; 1,700 second feet, May 19, 1912.

Maximum Discharge—Year 1939; 421 second feet, May 3, 1939. Gage height 5.40 feet.

Maximum Discharge—Year 1940; 434 second feet, May 17, 1940. Gage height 5.42 feet.

Accuracy — Records considered good. Estimated records November 6, 1938, to March 19, 1939, and December 12, 1939, to March 16, 1940, on basis of records of Little Snake River near Dixon, Wyoming.

Diversions for irrigation above station.

WHITE RIVER NEAR MEEKER, COLORADO

Location—Water stage recorder in Sec. 30, T. 1 N., R. 93 W., 3½ miles east of Meeker, and 1 mile above mouth of Curtis Creek.

Drainage Area—762 square miles.

Records Available—May, 1901, to October, 1906, May, 1910, to September 30, 1940. Station maintained 2½ miles downstream prior to October, 1913.

Maximum daily discharge observed during period 1901-06, 1910-40; 6,070 second feet, June 16, 1921.

Maximum Discharge—Year 1939; 2,060 second feet, May 6, 1939. Gage height 3.18 feet.

Maximum Discharge—Year 1940; 2,740 second feet, May 13, 1940. Gage height 3.52 feet.

Accuracy—Records considered excellent except those for period of ice effect and missing gage heights, December 5, 1938, to March 19, 1939, computed on basis of 2 discharge measurements, weather records and records Roaring Fork at Glenwood Springs. Those for period of ice effect January 20-27, 29, February 1, 4, 18-20, 1939, computed on basis of weather reports, and are fair.

Diversions for irrigation above station.

WHITE RIVER NEAR WATSON, UTAH

Location—Water stage recorder in Sec. 2, T. 10 S., R. 24 E., Salt Lake Meridian, 10 miles northeast of Watson on highway to Vernal, Utah, and just below mouth of Evacuation Creek.

Drainage Area—4,020 square miles.

Records Available—April 1 to October 31, 1906; April 1, 1923, to September 30, 1940.

Maximum daily discharge observed during period 1906, 1923-1940; 8,160 second feet, July 15, 1929.

Maximum Discharge—Year 1939; 4,490 second feet, May 19, 1939. Gage height 5.67 feet.

Maximum Discharge—Year 1940; 2,270 second feet, May 14, 1940. Gage height 3.44 feet.

Accuracy—Records considered good except for ice effect, November 27, 28, December 17, 19, 23, 1938, to March, 1939 (computed on basis of 2 discharge measurements and weather records), and December 19, 20, 22, 1939, to March 10, 1940 (computed on basis of 1 discharge measurement and weather records), and which are fair.

Diversions for irrigation above station.

YAMPA RIVER AT STEAMBOAT SPRINGS, COLORADO

Location—Water stage recorder in Sec. 17, T. 6 N., R. 84 W., at First Street bridge in Steamboat Springs, and a quarter of a mile above Soda Creek.

Drainage Area—604 square miles. Zero of gage is 6,696.23 feet above mean sea level.

Records Available—May 3, 1904, to October 31, 1906; March 1, 1910, to September 30, 1940.

Maximum discharge observed during period 1904-06, 1910-40; 6,820 second feet, June 14, 1921. Gage height 7.08 feet.

Maximum Discharge—Year 1939; 2,960 second feet, May 19, 1939. Gage height 5.05 feet.

Maximum Discharge—Year 1940; 3,220 second feet, May 31, 1940. Gage height 4.94 feet.

Accuracy — Records considered excellent except those for period of ice effect November 24, 30; December 6, 12-19, 27, 1938; January 5, 22-28; February 2, 3, 12, 17-19, 20, 28 to March 3, 1939, computed on basis of discharge measurements and weather reports, and for August 15-23, 1939 (estimated), and those for period of ice effect December 28, 1939, January 7-8, 15, 16, 17, 25, February 17-20, 1940, computed on basis of discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

YAMPA RIVER NEAR MAYBELL, COLORADO

Location—Water stage recorder in Sec. 2, T. 6 N., R. 95 W., at highway bridge 3 miles east of Maybell.

Drainage Area — 3,410 square miles. Altitude, 5,900 feet above mean sea level.

Records Available—April 24, 1916, to September 30, 1940.

Maximum discharge observed during period 1916-1940; 17,900 second feet, May 19, 1917. Gage height 10.4 feet.

Maximum Discharge—Year 1939; 7,860 second feet, May 7, 1939. Gage height 6.99 feet.

Maximum Discharge—Year 1940; 9,170 second feet, May 14, 1940. Gage height 7.64 feet.

Accuracy—Records considered excellent except those for ice effect period or missing gage heights November 24-30, December 13, 1938, to April 20, 1939, based on 2 discharge measurements, weather records, and partial gage heights, and are fair

Diversions for irrigation above station.

Discharge of Green River Near Linwood, Utah, for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	743	1330	780	560	480	550	3240	1990	2870	1790	1450	586
2....	770	1340	720	550	470	610	3080	2310	3540	1780	1640	572
3....	779	1350	720	530	460	630	3050	3030	4700	1810	1540	565
4....	770	1390	730	510	492	620	3020	3650	4940	1950	1450	565
5....	995	1370	740	500	510	600	2920	4040	4630	2140	1420	565
6....	1220	1280	730	487	520	630	2860	4390	3970	2300	1360	565
7....	1340	1140	710	480	540	640	2790	4670	3410	2300	1240	586
8....	2060	1100	700	470	500	660	2680	4960	3080	2200	1140	586
9....	3870.	923	680	450	480	680	2390	4820	3020	2120	1090	593
10....	3370	905	650	470	470	720	2140	4460	2950	2100	1050	656
11....	2170	850	620	500	470	780	2110	4190	2780	1980	1020	608
12....	1760	810	600	510	490	850	2110	4100	2630	1900	968	572
13....	1590	780	580	510	500	920	2110	4580	2540	1830	959	593
14....	1470	770	560	510	540	1050	2020	5180	2330	1810	905	586
15....	1410	760	570	520	570	1200	2020	4780	2080	1770	851	624
16....	1350	790	580	520	550	1430	2100	4240	1880	1700	815	725
17....	1530	800	560	500	560	1800	2100	3830	1810	1600	788	600
18....	1720	830	550	520	530	2100	2110	3710	1780	1580	743	572
19....	2050	840	540	540	510	2700	2120	3880	2020	1510	698	558
20....	2140	830	540	550	480	3100	2050	4310	2900	1420	680	572
21....	1940	790	560	500	520	3500	1870	4390	3150	1310	664	579
22....	1770	750	550	520	540	4100	1910	4390	3170	1250	656	579
23....	1700	710	540	520	540	4600	1990	4310	3170	1170	640	565
24....	1650	700	560	500	520	4770	2040	3970	2900	1120	632	565
25....	1530	710	560	480	500	4890	2220	3660	2630	1070	632	565
26....	1470	700	550	480	480	4780	2420	3420	2410	1050	624	565
27....	1450	710	510	500	480	5040	2550	3460	2180	1030	616	593
28....	1400	730	520	520	500	4870	2420	3490	1980	1030	608	656
29....	1370	780	530	530	....	4360	2170	3310	1900	1040	600	600
30....	1350	800	540	530	....	3880	1980	2870	1820	1090	624	586
31....	1320	....	550	530	....	3420	....	2620	....	1650	608	....
Total	50057	27568	18830	15797	14202	70480	70590	121010	85170	50400	28711	17702
Mean.	1615	919	607	510	507	2274	2353	3904	2839	1626	926	590
Max..	3870	1390	780	560	570	5040	3240	5180	4940	2300	1640	725
Min...	743	700	510	450	460	550	1870	1990	1780	1030	600	558
Acre-ft.	99290	54680	37350	31330	28170	139800	140000	240000	168900	99970	56950	35110

Total run-off for water year 1938-39=1,132,000 acre-feet.

Discharge of Green River Near Linwood, Utah, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	565	488	400	480	380	860	986	579	4170	995	380	334
2....	551	488	470	480	410	900	977	586	3750	923	380	329
3....	544	488	454	450	420	900	968	565	3390	923	380	329
4....	565	488	488	400	420	880	959	537	3260	914	385	316
5....	565	488	459	400	430	860	950	500	3360	923	375	312
6....	565	494	470	400	410	850	941	470	3410	842	365	304
7....	565	494	432	350	400	890	923	442	3220	788	360	296
8....	572	494	442	320	400	900	869	437	3170	743	365	296
9....	579	494	476	350	420	910	770	442	3140	689	370	296
10....	572	488	551	400	430	920	716	488	2760	632	370	304
11....	565	494	565	390	410	820	689	482	2340	579	370	304
12....	551	494	586	380	379	780	656	476	2060	558	370	320
13....	544	488	520	355	370	760	648	454	1870	530	365	352
14....	537	464	500	370	380	780	672	579	1640	500	360	329
15....	537	459	520	360	400	820	656	995	1430	482	356	312
16....	518	464	540	360	390	842	632	1380	1270	454	347	300
17....	512	470	530	380	360	941	632	1810	1250	432	338	292
18....	512	464	500	320	340	905	689	2010	1410	420	334	288
19....	512	380	460	300	350	896	752	2140	1660	405	334	288
20....	512	338	470	320	360	977	770	2220	1900	410	329	296
21....	512	320	450	330	340	959	743	2180	2010	442	320	288
22....	512	352	410	270	360	1050	734	1990	1970	448	320	288
23....	512	347	420	300	380	1190	707	2010	1820	442	312	288
24....	512	390	430	340	400	1220	734	1940	1760	432	312	288
25....	506	410	390	360	430	1220	716	1740	1740	410	316	288
26....	518	395	320	350	480	1140	648	1590	1670	400	320	292
27....	512	420	330	370	600	1150	632	1660	1560	395	316	292
28....	500	442	320	400	700	1190	648	2680	1380	385	316	316
29....	500	375	340	380	780	1180	608	3390	1210	380	324	410
30....	488	334	390	370	....	1090	593	4120	1099	380	334	707
31....	488	....	450	360	....	1010	....	4290	1090	380	334	....
Total	16503	13204	14083	11395	12329	29790	22618	45182	66670	17636	10757	9654
Mean.	532	440	454	368	425	961	754	1457	2222	569	347	322
Max..	579	494	586	480	780	1220	986	4290	4170	995	385	707
Min...	488	320	320	270	340	760	593	437	1090	380	312	288
Ac.-ft.	32730	26190	27930	22600	24450	59090	44860	89620	132200	34980	21340	19150

Total run-off for water year 1939-40—535,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Elk River at Clark, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	54	74	115	....	....	....	160	1380	1540	400	170	45
2....	50	72	105	....	....	....	180	1380	1140	378	133	42
3....	54	69	101	....	....	....	210	1320	1050	364	117	38
4....	52	70	99	....	....	....	240	1250	1250	352	109	34
5....	59	69	125	....	....	....	270	1290	1340	336	99	41
6....	83	60	107	....	....	....	230	1260	1250	316	99	155
7....	74	81	93	....	....	....	220	948	1050	288	115	324
8....	79	85	89	....	....	....	240	868	941	273	99	230
9....	85	89	91	....	....	....	260	1000	894	252	87	145
10....	75	87	91	....	....	....	240	1130	764	242	81	113
11....	70	81	103	....	....	....	200	1080	764	233	77	147
12....	68	87	75	....	....	....	230	1050	816	227	74	164
13....	63	89	76	....	....	....	260	900	894	212	70	135
14....	62	105	79	....	....	....	270	1030	983	197	69	115
15....	60	117	90	....	....	....	270	1210	955	185	69	99
16....	59	123	104	....	....	....	260	1260	848	179	63	91
17....	87	109	118	....	....	....	255	1200	810	170	60	81
18....	85	111	118	....	....	....	248	1350	686	155	57	77
19....	72	115	115	....	....	....	239	1510	572	153	54	75
20....	68	123	107	....	....	....	239	1520	540	147	50	72
21....	70	123	109	....	....	....	360	1380	556	141	49	72
22....	66	102	109	....	....	....	618	1410	495	135	47	75
23....	62	109	109	....	....	....	718	1420	500	127	46	123
24....	60	106	109	....	....	....	666	1260	530	121	46	113
25....	63	115	108	....	....	....	572	1070	530	117	46	111
26....	63	99	109	....	....	....	654	934	500	115	46	115
27....	60	98	107	....	....	....	777	934	486	113	45	107
28....	57	99	105	....	....	....	983	997	464	115	47	95
29....	56	104	104	....	....	....	1130	1190	446	137	46	115
30....	57	114	105	....	....	....	1240	1360	418	141	47	95
31....	60	....	108	....	....	....	....	1420	....	139	46	....
Total	2033	2885	3183	2790	2380	3410	12439	37311	24012	6460	2263	3244
Mean.	65.6	96.2	103	90	85	110	415	1204	800	208	73.0	108
Max..	87	123	125	....	....	....	1240	1520	1540	400	170	324
Min...	50	60	75	....	....	....	160	868	418	113	45	34
Acre-ft.	4030	5720	6310	5530	4720	6760	24670	74010	47630	12810	4490	6430

Total run-off for water year 1938-39=203,100 acre-feet.

Discharge of Elk River at Clark, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	83	72	53	55	37	39	110	435	1700	360	106	61
2....	77	74	50	56	42	40	112	619	1750	394	83	58
3....	74	69	52	58	45	48	102	964	1740	384	78	54
4....	83	68	53	57	43	58	104	1230	1570	340	75	62
5....	102	69	56	54	41	65	108	1200	1480	308	71	51
6....	115	82	54	42	42	62	108	1160	1310	288	68	47
7....	115	75	57	30	38	58	104	1160	1070	272	68	46
8....	104	66	57	32	38	54	94	1290	1030	257	66	46
9....	108	75	53	32	40	54	94	1520	865	240	64	54
10....	100	48	53	39	42	56	86	1630	805	223	62	85
11....	94	57	54	32	43	56	82	1740	858	213	65	62
12....	90	65	57	31	37	57	74	1830	980	195	59	53
13....	83	59	54	30	34	64	86	2180	1060	188	57	51
14....	78	58	61	29	34	72	132	1590	1090	182	54	53
15....	78	54	59	28	37	65	195	1540	1060	173	52	57
16....	77	51	65	29	34	65	221	2000	1100	170	51	53
17....	75	44	58	34	30	59	221	1960	988	203	50	57
18....	74	48	59	30	31	56	268	1510	880	218	51	59
19....	71	46	57	27	32	56	364	1460	880	178	52	66
20....	68	50	60	32	34	56	475	1350	872	159	56	62
21....	65	54	64	33	32	57	552	1190	964	143	56	64
22....	65	52	56	28	33	61	569	1120	768	132	58	102
23....	64	52	62	35	33	71	569	1140	687	126	56	74
24....	64	51	56	40	32	77	752	1210	580	117	56	64
25....	64	52	56	38	31	78	850	1250	530	112	71	61
26....	74	56	57	38	31	80	925	1270	500	102	132	68
27....	75	58	56	42	33	82	940	1470	455	94	117	77
28....	64	51	45	45	31	78	715	1470	425	100	86	64
29....	75	50	47	38	37	72	536	1350	394	112	75	78
30....	58	50	50	33	....	75	425	1380	364	117	69	108
31....	66	....	53	35	....	88	....	1600	....	100	65	....
Total	2483	1756	1724	1162	1047	1959	9973	42818	28755	6200	2129	1897
Mean.	80.1	58.5	55.6	37.5	36.1	63.2	332	1381	958	200	68.7	63.2
Max..	115	82	65	58	45	88	940	2180	1750	394	132	108
Min...	58	44	45	27	30	39	74	435	364	94	50	46
Acre-ft.	4920	3480	3420	2300	2080	3890	19780	84930	57030	12300	4220	3760

Total run-off for water year 1939-40=202,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River Near Dixon, Wyo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	15	83	89	84	105	108	448	2920	1750	40	14	7.2
2....	16	109	82	84	100	112	516	2890	1500	35	21	5.6
3....	16	105	82	83	100	114	652	2620	1270	28	14	3.6
4....	18	98	84	82	105	111	692	2580	1200	24	9.5	2.2
5....	22	103	86	80	100	110	825	2620	1240	23	7.6	2.0
6....	27	70	87	79	96	111	594	2750	1150	19	7.2	3.4
7....	36	80	87	77	92	113	555	2170	956	18	6.4	16
8....	43	80	86	76	100	114	484	1850	840	25	6.8	68
9....	46	80	85	77	105	116	588	1970	762	23	9.0	30
10....	49	78	82	80	107	119	510	2150	727	19	7.6	17
11....	48	76	80	83	108	122	448	2050	640	12	6.4	11
12....	44	74	78	84	108	124	436	2080	588	11	5.2	10
13....	40	73	76	84	105	128	510	1750	529	9.5	4.4	16
14....	37	71	73	85	100	133	748	1790	478	8.0	4.4	14
15....	43	70	74	86	100	137	783	1960	419	6.4	5.6	12
16....	42	72	76	84	98	142	679	2150	365	6.0	6.0	10
17....	51	74	78	84	98	148	510	2170	298	5.6	3.6	10
18....	73	76	76	88	96	158	460	2210	248	5.2	1.8	9.5
19....	81	80	74	93	98	185	607	2330	230	5.2	1.3	9.0
20....	70	85	77	92	100	250	594	2470	195	5.2	1.0	8.5
21....	66	78	81	91	98	300	720	2220	192	6.0	0.9	8.0
22....	73	72	79	91	98	380	1140	2110	208	6.0	0.8	7.2
23....	75	72	78	89	94	466	1590	2110	157	6.0	0.7	16
24....	68	74	80	85	92	555	1370	1980	121	5.2	0.6	16
25....	63	77	81	84	90	594	1190	2040	112	3.4	0.6	11
26....	65	76	79	86	94	672	1120	1390	90	4.0	0.6	12
27....	68	77	76	91	98	741	1280	1240	73	4.4	0.6	14
28....	69	80	74	95	102	535	1710	1220	57	9.5	1.4	14
29....	66	84	75	100	....	466	2170	1290	48	7.6	2.6	14
30....	65	89	78	102	....	392	2510	1440	42	5.2	2.0	17
31....	68	....	81	100	....	380	....	1580	....	11	2.8	....
Total	1563	2416	2474	2679	2787	8136	26439	64100	16485	396.4	156.4	394.2
Mean.	50.4	80.5	79.8	86.4	99.5	262	881	2068	550	12.8	5.05	13.1
Max..	81	109	89	102	108	741	2510	2920	1750	40	21	68
Min...	15	70	73	76	90	108	436	1220	42	3.4	0.6	2.0
Acre-ft.	3100	4790	4910	5310	5530	16140	52440	127100	32700	786	310	782

Total run-off for water year 1938-39=253,900 acre-feet.

Discharge of Little Snake River Near Dixon, Wyoming, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	62	56	64	74	160	408	878	1970	23	3.8	4.0
2....	12	70	57	61	77	148	442	1060	1910	28	3.6	3.6
3....	9.5	72	56	60	74	134	289	1650	1850	38	3.4	3.6
4....	11	69	55	60	74	119	284	2550	1660	32	3.0	2.8
5....	12	68	60	62	70	114	264	2640	1500	24	3.0	2.8
6.....	14	69	65	60	64	114	316	2470	1370	19	3.8	2.6
7....	15	72	62	54	68	96	284	2340	1150	16	3.8	3.0
8....	15	70	66	50	66	105	240	2370	1020	14	3.4	3.0
9....	14	68	60	56	70	101	252	2620	840	12	3.0	4.4
10....	23	75	60	60	70	94	276	2720	741	10	2.6	5.2
11....	31	62	66	64	74	96	244	2860	685	9.5	2.8	6.0
12....	28	50	63	62	74	92	192	2930	659	9.5	2.0	7.2
13....	26	44	59	58	65	87	219	3320	626	10	2.2	6.8
14....	24	50	55	54	62	78	335	2920	581	10	2.6	7.2
15....	22	50	68	50	66	80	548	2690	529	9.0	2.8	9.5
16....	21	52	69	52	62	89	652	2760	484	9.5	2.6	9.0
17....	23	44	66	54	60	107	548	3060	414	9.0	2.0	11
18....	27	47	68	52	66	89	568	2620	330	9.5	1.8	10
19....	43	57	72	46	74	96	755	2380	268	9.5	1.8	10
20....	44	55	58	47	76	105	964	2360	222	9.0	2.0	14
21....	47	55	61	48	71	96	1110	2150	198	7.6	2.6	15
22....	48	57	57	46	76	112	1160	2020	192	7.2	3.0	19
23....	44	55	52	50	84	134	916	1910	163	6.4	3.4	24
24....	46	56	54	54	88	169	1260	1870	116	6.4	4.8	29
25....	47	57	52	60	100	212	1780	1930	85	6.8	4.0	21
26....	60	62	50	63	110	248	1800	1890	58	5.6	5.2	12
27....	68	60	48	67	120	316	2040	2070	43	4.8	12	11
28....	72	52	46	70	130	284	1650	2020	37	4.4	12	15
29....	62	56	48	74	140	244	1480	2020	33	3.4	9.5	12
30....	65	58	55	72	....	226	1070	1850	26	3.2	7.2	18
31....	60	....	60	70	....	289	....	1920	....	3.6	5.2	....
Total	1047.5	1774	1824	1800	2305	4434	22346	70848	19760	369.9	124.9	301.7
Mean.	33.8	59.1	58.8	58.1	79.5	143	745	2285	659	11.9	4.03	10.1
Max..	72	75	72	74	140	316	2040	3320	1970	38	12	29
Min...	9.5	44	46	46	60	78	192	878	26	3.2	1.8	2.6
Acre-ft.	2080	3520	3620	3570	4570	8790	44320	140500	39190	734	248	598

Total run-off for water year 1939-40=251,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River Near Lily, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	27	92	210	117	123	150	657	2660	1470	38	0.6	0
2....	27	92	220	114	121	160	550	2780	1630	24	0	0
3....	24	98	235	111	123	168	556	3260	1710	16	0	0
4....	22	100	240	109	125	168	629	2910	1470	14	0	0
5....	25	100	235	102	127	200	713	2830	1240	14	0	0
6....	174	104	223	104	130	190	742	2800	1110	10	0	0
7....	80	107	220	110	130	185	907	2800	1080	10	0	0
8....	291	132	223	112	129	185	713	2430	1040	10	0	0.6
9....	170	325	230	113	128	190	685	2020	961	8.5	0	0
10....	95	330	235	110	125	192	622	1990	863	7.5	0	23
11....	75	208	230	106	127	198	699	2140	788	7.0	0	34
12....	75	189	200	105	130	200	629	2190	750	5.0	0	14
13....	70	85	180	102	134	205	568	2090	671	3.8	0	8.0
14....	62	140	170	100	138	206	550	2090	608	3.0	0	72
15....	62	246	165	98	145	220	650	1820	550	1.8	0	5.0
16....	62	254	163	100	148	244	961	1920	491	1.0	0	2.6
17....	62	189	164	104	146	280	1420	2120	439	0.8	0	1.4
18....	98	189	162	110	143	315	846	2240	411	0.6	0	1.0
19....	72	277	160	112	140	490	706	2190	350	0.3	0	0.9
20....	107	286	155	112	140	800	615	2310	295	0	0	0.6
21....	129	246	154	111	147	1100	706	2500	272	0	0	0.6
22....	118	241	152	110	150	1270	692	2460	229	0	0	0.4
23....	114	200	150	108	152	1200	820	2160	185	0	0	0.6
24....	114	180	130	101	150	1100	1410	2140	182	0	0	0.9
25....	111	170	119	103	148	1050	1510	2130	170	0	0	0.7
26....	107	165	118	109	142	1020	1320	1960	132	0	0	0.7
27....	107	170	116	113	140	1040	1140	1720	98	0	0	0.6
28....	107	180	114	117	142	1170	1250	1500	70	0	0	0.8
29....	100	197	110	120	....	1280	1590	1350	58	0	0	0.9
30....	98	205	112	120	....	907	2200	1290	48	0	0	0.8
31....	95	....	116	118	....	788	....	1300	....	0.8	0	....
Total	2880	5497	5411	3381	3823	16871	27056	68100	19371	176.1	0.6	170.1
Mean.	92.9	183	175	109	137	544	902	2197	646	5.68	0.02	5.67
Max..	291	330	240	120	152	1280	2200	3260	1710	38	0.6	72
Min...	22	85	110	98	121	150	550	1290	48	0	0	0
Acre-ft.	5710	10900	10730	6710	7580	33460	53660	135100	38420	349	1	337

Total run-off for water year 1938-39=302,957 acre feet.

Discharge of Little Snake River Near Lily, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.2	55	65	31	35	94	340	1500	1510	40	0	0
2....	0.2	46	52	34	40	80	405	1140	1720	32	0	0
3....	0.2	46	55	35	44	90	550	961	1670	24	0	0
4....	0.7	44	68	32	44	74	601	1220	1560	23	0	0
5....	1.5	48	40	30	39	90	562	2260	1740	18	0	0
6....	151	55	34	24	32	80	538	2730	1600	15	0	0
7....	140	55	38	20	37	86	445	2540	1430	12	0	0
8....	80	52	50	22	34	94	451	2320	1310	12	0	0
9....	70	60	50	29	31	80	479	2280	1160	10	0	2.4
10....	48	52	49	28	40	86	422	2490	1050	9.0	0	4.8
11....	40	55	52	22	35	78	388	2720	889	7.5	0	0
12....	132	55	40	26	31	70	411	2890	780	7.5	0	0
13....	58	55	32	17	29	64	416	2920	713	5.5	0	0
14....	50	58	33	18	36	78	350	3100	671	3.8	0	0
15....	42	48	35	16	35	100	320	3070	643	3.0	0	0
16....	30	46	38	21	33	140	439	2640	608	1.4	0	0
17....	24	23	41	24	26	160	678	2680	562	3.4	0	0
18....	22	20	30	12	32	135	772	2920	532	1.4	0	0
19....	23	28	25	9	40	190	706	2860	491	1.0	0	0
20....	23	44	35	12	45	240	706	2400	422	0.8	0	16
21....	22	52	30	14	35	300	872	2250	366	0.6	0	68
22....	24	48	21	9	52	366	1140	2200	320	0.6	0.3	72
23....	24	50	22	15	60	383	1290	2100	282	0.5	0.1	9.0
24....	25	40	26	16	54	394	1260	1970	254	0.3	0.2	5.0
25....	26	46	21	13	64	445	1150	1880	233	0.2	4.1	4.6
26....	44	55	18	20	82	468	1740	1860	174	0	118	4.6
27....	34	52	20	23	72	462	2090	1860	132	0	0.7	4.2
28....	32	52	15	29	105	508	2100	1880	85	0	0.1	5.5
29....	38	46	17	31	100	562	1880	1930	60	0	0	248
30....	48	24	21	23	....	550	1740	1690	52	0	0	433
31....	52	....	26	29	....	422	....	1620	....	0	0	....
Total	1318.3	1410	1099	684	1342	6969	25241	68881	23019	232.5	123.5	877.1
Mean.	42.5	47.0	35.5	22.1	46.3	225	841	2222	767	7.50	3.98	29.2
Max..	151	60	68	35	105	562	2100	3100	1740	40	118	433
Min...	0.2	20	15	9	26	64	320	961	52	0	0	0
Acre-ft.	2610	2800	2180	1360	2660	13820	50060	136600	45660	461	245	1740

Total run-off for water year 1939-40=260,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Slater Fork Near Slater, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	19	22	21	22	25	47	322	244	15	8.6	5.4
2....	13	23	21	20	21	26	55	341	201	14	9.2	3.3
3....	13	20	20	20	22	26	72	334	179	13	7.6	2.0
4....	13	21	20	20	23	26	86	312	188	9.4	6.4	1.9
5....	15	19	21	20	22	25	55	324	195	7.8	5.0	6.8
6....	18	13	21	19	22	26	66	331	172	7.2	3.6	16
7....	18	18	21	18	22	26	61	242	137	4.9	5.3	29
8....	18	18	21	18	22	26	59	223	117	5.0	5.7	25
9....	20	18	20	19	23	27	82	245	112	5.0	5.9	16
10....	19	17	20	19	24	27	68	258	105	3.4	4.3	14
11....	18	17	19	20	24	28	60	245	94	3.7	3.8	12
12....	17	17	19	20	24	28	62	250	95	1.2	2.5	24
13....	18	16	18	20	23	29	87	202	91	1.4	1.8	21
14....	18	16	17	20	22	30	121	209	92	1.4	1.5	16
15....	17	16	18	21	22	30	104	228	86	3.6	1.3	14
16....	17	17	19	20	22	31	89	234	75	3.8	2.1	12
17....	20	17	19	20	22	32	67	248	67	3.7	3.4	11
18....	23	18	18	21	22	30	63	258	57	3.4	2.9	9.8
19....	22	18	18	22	22	38	80	298	50	3.2	2.6	9.2
20....	20	20	19	22	23	40	86	297	47	2.5	3.3	8.7
21....	23	18	20	22	24	41	107	250	48	1.8	3.8	8.6
22....	23	17	19	22	23	51	197	248	51	1.8	3.7	8.8
23....	21	17	18	21	23	56	254	251	38	3.7	3.7	9.0
24....	19	18	19	20	22	68	238	231	33	3.4	4.1	10
25....	19	19	20	20	23	64	189	197	33	3.4	4.3	10
26....	19	18	19	20	23	68	187	173	29	4.6	3.7	14
27....	18	19	18	21	24	71	213	167	24	4.7	6.2	13
28....	17	20	18	21	25	57	248	174	22	5.6	6.4	12
29....	16	21	18	22	....	52	272	200	18	2.3	7.2	12
30....	16	22	19	23	....	46	296	230	16	7.0	8.6	12
31....	16	....	20	22	....	47	....	245	....	8.0	7.6	....
Total	557	547	599	633	636	1197	3671	7767	2716	158.9	146.1	366.5
Mean.	18	18.2	19.3	20.4	22.7	38.6	122	251	90.5	5.13	4.71	12.2
Max..	23	23	22	23	25	71	296	341	244	15	9.2	29
Min...	13	13	17	18	21	25	47	167	16	1.2	1.3	1.9
Acre-ft.	1100	1080	1190	1260	1260	2370	7280	15410	5390	315	290	727

Total run-off for water year 1938-39=37,672 acre-feet.

Discharge of Slater Fork Near Slater, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	14	12	13	15	29	46	132	267	9.6	0.8	3.2
2....	10	14	11	13	16	27	45	182	259	15	0.5	2.6
3....	9.8	13	10	12	15	25	34	265	254	17	0.9	2.1
4....	11	13	10	13	14	23	33	337	236	16	1.2	1.7
5....	14	13	10	12	13	22	34	345	218	16	1.8	1.5
6....	14	14	10	12	13	20	40	345	195	16	1.1	1.4
7....	15	14	11	11	13	18	36	332	167	14	2.3	1.4
8....	15	14	12	10	14	19	33	302	140	11	1.8	2.4
9....	17	14	13	12	14	18	38	306	127	9.4	1.8	2.1
10....	17	11	12	13	14	17	42	297	110	8.1	1.2	7.8
11....	17	11	13	14	14	17	35	301	104	7.4	1.4	4.5
12....	16	11	11	14	15	17	30	346	105	6.8	1.6	4.1
13....	16	12	10	13	14	16	38	367	112	6.0	1.8	7.5
14....	16	12	10	12	12	16	59	376	109	4.3	1.8	12
15....	16	11	11	11	13	15	76	320	106	4.2	2.0	8.1
16....	16	9.4	12	11	12	17	84	361	98	4.1	2.3	6.9
17....	16	8.4	13	11	12	19	68	379	86	4.9	0.5	5.6
18....	16	8.4	12	10	12	17	89	310	73	7.8	0.7	6.2
19....	15	8.4	12	9.4	13	18	139	270	62	6.6	1.4	12
20....	15	8.4	13	9.6	14	19	180	262	54	5.4	1.2	10
21....	14	9.2	12	9.8	13	19	209	248	50	4.6	1.9	9.8
22....	14	9.2	13	9.7	15	19	196	231	47	4.0	1.7	11
23....	13	9.0	11	10	16	21	168	206	40	3.2	1.6	13
24....	13	8.7	11	11	18	24	251	223	32	3.3	2.1	15
25....	12	7.8	10	12	20	26	318	228	27	2.4	3.3	13
26....	14	8.7	10	13	22	30	291	254	21	2.1	6.2	14
27....	14	9.0	10	14	24	35	309	295	15	1.7	8.7	16
28....	13	9.6	10	15	27	32	238	294	15	0.9	6.4	15
29....	13	8.8	10	15	28	26	211	280	10	0.9	4.9	22
30....	12	8.2	11	15	....	26	150	267	8.2	1.1	4.2	35
31....	13	....	12	14	....	37	....	266	....	1.8	3.8	....
Total	437.8	322.2	348	374.5	455	684	3520	8927	3147.2	215.6	72.9	266.9
Mean.	14.1	10.7	11.2	12.1	15.7	22.1	117	288	105	6.95	2.35	8.90
Max..	17	14	13	15	28	37	318	379	267	17	8.7	35
Min...	9.8	7.8	10	9.4	12	15	30	132	8.2	0.9	0.5	1.4
Acre-ft.	868	639	690	743	902	1360	6980	17710	6240	428	145	529

Total run-off for water year 1939-40=37,230 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River Near Meeker, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	375	345	325	330	250	240	390	1380	1960	489	395	274
2....	380	365	330	340	210	230	405	1520	1700	477	345	256
3....	385	365	320	345	200	245	429	1580	1440	471	305	248
4....	370	370	315	350	250	260	447	1570	1560	471	330	252
5....	385	380	310	280	290	245	459	1730	1810	459	310	292
6....	385	325	315	340	280	230	453	1820	1890	435	310	441
7....	400	320	320	320	285	240	435	1480	1650	447	365	644
8....	400	340	320	315	270	260	423	1320	1520	380	345	513
9....	405	360	315	330	270	245	483	1370	1390	360	330	405
10....	395	360	315	320	220	260	465	1560	1200	345	350	360
11....	385	355	315	300	265	255	441	1570	1220	345	320	375
12....	385	345	310	320	254	250	453	1500	1240	340	310	453
13....	390	300	305	320	270	270	489	1370	1320	330	345	390
14....	380	320	270	319	270	280	539	1370	1350	345	345	390
15....	375	320	310	280	280	260	525	1470	1320	315	335	365
16....	370	340	370	320	270	295	501	1590	1160	300	315	350
17....	400	350	340	300	230	315	471	1500	1070	296	315	345
18....	380	320	300	300	230	330	453	1500	962	287	310	340
19....	360	335	350	295	270	350	495	1590	882	320	296	335
20....	355	330	350	290	260	375	477	1810	815	252	252	330
21....	350	325	350	290	250	390	553	1810	778	240	252	330
22....	355	278	345	290	240	423	672	1810	710	236	252	335
23....	350	300	340	290	240	435	822	1840	658	232	244	340
24....	350	260	290	270	270	441	725	1720	637	244	248	350
25....	350	325	290	240	265	447	623	1520	658	252	274	350
26....	345	252	340	250	260	465	702	1280	630	260	296	345
27....	345	296	270	300	260	477	808	1200	595	296	296	340
28....	345	296	315	330	230	447	938	1210	560	370	300	395
29....	340	292	340	310	....	423	1200	1290	525	385	260	453
30....	340	315	330	300	....	395	1340	1430	501	365	269	375
31....	340	....	320	320	....	385	....	1530	....	400	278	....
Total	11470	9784	9935	9504	7139	10163	17616	47240	33711	10744	9497	10971
Mean.	370	326	320	307	255	328	587	1524	1124	347	306	366
Max..	405	380	370	350	290	477	1340	1840	1960	489	395	644
Min...	340	252	270	240	200	230	390	1200	501	232	244	248
Acre-ft.	22750	19410	19710	18850	14160	20160	34940	93700	66860	21310	18840	21760

Total run-off for water year 1938-39=372,400 acre-feet.

Discharge of White River Near Meeker, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	345	325	310	305	290	300	355	581	2120	477	252	274
2....	335	335	305	296	280	305	365	658	2240	483	252	274
3....	335	330	296	300	274	300	330	815	2240	543	256	282
4....	350	325	300	292	280	296	320	1300	2050	435	252	282
5....	375	330	296	292	282	296	320	1530	1890	423	248	274
6....	370	335	296	287	278	300	335	1570	1630	400	232	278
7....	355	325	300	282	296	292	335	1630	1320	390	236	282
8....	370	320	300	269	282	296	320	1520	1240	395	248	274
9....	395	335	300	300	278	300	325	1900	1110	345	240	278
10....	375	310	300	292	282	300	340	2150	979	320	236	287
11....	370	310	296	292	287	300	325	2260	930	320	232	282
12....	360	325	292	300	260	296	300	2320	930	310	224	282
13....	360	325	274	287	264	274	330	2540	962	305	216	310
14....	355	315	300	282	296	248	365	2320	938	292	213	305
15....	350	310	282	244	296	269	423	2120	922	287	210	287
16....	345	300	296	278	282	278	459	2140	875	274	216	269
17....	340	296	292	315	244	296	429	2240	830	296	206	274
18....	340	296	292	305	250	278	447	1790	762	300	202	292
19....	335	282	216	252	300	287	519	1750	725	292	202	292
20....	335	296	232	310	300	287	560	1790	718	269	224	282
21....	330	315	269	320	305	296	588	1720	695	269	224	296
22....	335	305	224	290	287	305	637	1480	665	269	232	330
23....	325	310	282	260	300	315	623	1480	651	252	236	315
24....	320	310	269	240	296	330	725	1560	609	248	260	310
25....	320	310	274	240	292	335	822	1620	567	232	300	305
26....	355	310	248	250	292	345	922	1730	539	228	335	335
27....	355	315	248	250	292	355	938	1860	539	216	325	320
28....	335	300	244	252	278	360	808	1750	513	269	292	305
29....	345	310	292	280	296	325	725	1810	483	282	274	340
30....	330	296	300	290	....	310	644	1890	477	282	269	370
31....	325	....	315	290	....	335	....	2010	....	269	282	....
Total	10770	9406	8740	8742	8239	9409	14934	53834	31149	9882	7626	8886
Mean.	347	314	282	282	284	304	498	1737	1038	319	246	296
Max..	395	335	315	320	305	360	938	2540	2240	483	335	370
Min..	320	282	216	240	244	248	300	581	477	216	202	269
Ac.-ft.	21360	18660	17340	17340	16340	18660	29620	106800	61780	19600	15130	17630

Total run-off for water year 1939-40=360,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	456	355	340	330	430	420	660	1230	1520	564	588	270
2....	450	546	382	340	350	440	696	1360	1580	540	462	260
3....	438	418	412	330	270	460	750	1450	1650	522	370	260
4....	448	370	412	330	250	500	708	1590	1440	504	343	247
5....	525	400	412	330	310	440	684	1580	1440	492	310	260
6....	672	430	370	335	340	410	702	1680	1600	468	316	275
7....	460	376	360	340	360	442	708	1800	1740	444	305	774
8....	1510	350	355	355	320	442	684	1630	1620	414	332	871
9....	672	345	355	360	300	576	648	1460	1500	392	343	720
10....	539	370	365	360	280	736	612	1440	1400	354	332	570
11....	525	388	394	350	324	560	588	1500	1370	338	305	510
12....	484	370	350	340	330	616	564	1540	1300	326	316	564
13....	424	376	238	355	340	680	552	1520	1270	310	290	612
14....	412	340	188	350	370	962	540	1460	1290	295	300	564
15....	412	355	174	330	410	1180	600	1420	1310	275	310	472
16....	412	345	172	340	450	1280	612	1490	1300	275	300	456
17....	632	370	190	350	360	1120	540	1550	1230	256	285	432
18....	406	382	190	360	340	1500	558	1540	1180	231	280	409
19....	365	355	185	380	370	2230	552	1490	1120	215	280	404
20....	345	355	208	370	360	2810	558	1490	1010	198	270	398
21....	330	406	262	370	360	3450	570	1630	941	191	265	392
22....	335	355	290	360	380	3630	570	1690	885	176	252	398
23....	355	310	240	240	400	3140	762	1680	815	164	247	387
24....	376	219	260	200	420	1750	780	1700	750	164	243	398
25....	406	166	280	190	410	1220	829	1650	714	167	239	426
26....	376	164	270	195	430	1100	794	1550	708	176	239	426
27....	370	190	260	210	420	1100	762	1410	696	164	239	404
28....	382	220	260	250	400	1040	794	1300	660	164	265	462
29....	382	242	290	320	....	850	906	1260	624	198	265	528
30....	370	280	320	420	....	801	1090	1300	594	285	290	528
31....	360	....	340	450	....	708	....	1500	....	376	338	....
Total	14629	10148	9124	10140	10084	36593	20373	46890	35257	9638	9519	13677
Mean.	472	338	294	327	360	1180	679	1513	1175	311	307	456
Max..	1510	546	412	450	450	3630	1090	1800	1740	564	588	871
Min...	330	164	172	190	250	410	540	1230	594	164	239	247
Acre-ft.	29020	20130	18100	20110	20000	72580	40410	93000	69930	19120	18880	27130

Total run-off for water year 1938-39=448,400 acre-feet.

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	462	370	348	400	370	450	416	1070	1680	466	215	260
2....	438	370	365	380	360	430	444	988	1750	394	192	270
3....	404	370	370	370	350	420	488	974	1870	410	192	260
4....	678	376	360	370	340	430	515	1030	1920	400	184	295
5....	426	376	343	360	330	400	482	1230	1780	378	188	265
6....	414	382	343	350	340	380	454	1500	1680	361	184	265
7....	409	376	365	330	350	390	460	1590	1500	350	180	265
8....	409	382	338	320	360	400	449	1650	1320	335	180	270
9....	744	376	354	360	361	410	422	1590	1160	330	176	275
10....	522	387	343	350	350	430	416	1790	1090	310	176	422
11....	426	392	343	340	340	398	416	1960	1030	275	176	361
12....	398	376	348	340	350	370	410	2040	946	265	168	300
13....	387	382	348	330	340	365	383	2120	890	260	168	295
14....	382	387	326	300	340	348	372	2210	848	245	160	515
15....	387	387	326	280	350	354	388	2190	806	240	152	400
16....	387	382	338	310	340	316	438	1990	771	240	152	345
17....	392	376	354	340	330	343	504	1970	757	345	150	345
18....	382	365	360	330	350	426	532	2060	708	315	155	356
19....	382	354	310	320	380	438	515	1830	654	275	152	335
20....	387	365	300	310	370	387	526	1700	618	275	155	400
21....	382	370	305	340	380	370	618	1680	600	240	164	378
22....	387	398	310	320	390	370	702	1620	600	225	155	564
23....	392	387	330	290	410	360	785	1460	588	215	176	444
24....	398	382	340	280	400	370	834	1430	554	210	225	410
25....	387	376	310	330	390	387	939	1430	542	176	356	394
26....	534	365	310	340	410	404	1060	1480	498	192	995	427
27....	504	360	270	350	420	438	1150	1570	466	180	460	388
28....	420	360	250	370	430	498	1190	1640	449	255	400	482
29....	387	360	280	390	450	546	1190	1600	444	196	356	1010
30....	376	354	330	380	....	516	1130	1610	471	210	315	1310
31....	376	....	370	380	....	450	....	1660	....	220	275	....
Total	13359	11243	10287	10560	10681	12594	18628	50662	28990	8788	7332	12306
Mean.	431	375	332	341	368	406	621	1634	966	283	237	410
Max..	744	398	370	400	450	546	1190	2210	1920	466	995	1310
Min...	376	354	250	280	330	316	372	974	444	176	150	260
Ac.-ft.	26500	22300	20400	20950	21190	24980	36950	100500	57500	17430	14540	24410

Total run-off for water year 1939-40=387,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River at Steamboat Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	114	110	153	124	122	134	493	1840	2290	263	232	46
2....	110	110	157	122	119	120	608	1960	1890	246	168	45
3....	107	112	160	122	117	120	771	2000	1730	221	149	40
4....	100	122	150	124	112	122	961	1980	1880	195	143	35
5....	95	132	142	120	112	124	1080	2240	1870	195	138	38
6....	93	107	135	114	114	125	842	2260	1710	168	140	63
7....	95	120	127	104	122	124	685	1830	1440	143	140	127
8....	102	114	132	117	143	117	758	1540	1250	127	135	130
9....	112	124	135	117	114	117	849	1700	1130	117	130	114
10....	114	146	132	120	135	122	679	1900	1130	102	114	90
11....	102	132	127	120	122	122	631	1900	1030	84	114	95
12....	95	120	120	120	123	127	679	1830	1020	72	114	112
13....	90	110	102	120	114	135	816	1540	1000	74	104	97
14....	93	120	104	117	112	130	816	1740	996	70	97	74
15....	110	130	110	117	107	135	816	1520	927	63	88	72
16....	112	107	130	114	120	127	727	2160	810	58	86	54
17....	122	120	135	112	121	117	554	2150	721	50	81	56
18....	124	117	130	110	120	110	520	2410	643	45	77	50
19....	117	114	127	110	120	124	581	2610	576	43	74	50
20....	110	135	124	112	120	146	581	2590	542	38	70	50
21....	107	127	130	110	124	171	608	2500	620	37	65	45
22....	100	143	127	110	114	221	830	2450	598	35	63	45
23....	95	104	127	105	124	309	1140	2480	466	34	61	46
24....	95	104	124	102	124	442	1160	2300	420	34	40	65
25....	93	93	122	100	120	598	1030	1890	442	45	40	88
26....	97	114	120	110	117	667	1030	1670	433	40	43	79
27....	97	110	118	120	127	727	1090	1610	384	45	45	72
28....	97	132	114	124	130	703	1320	1790	334	70	40	86
29....	102	146	107	122	....	570	1610	2000	301	88	43	130
30....	104	150	120	127	....	451	1750	1960	278	154	43	112
31....	112	....	124	130	....	438	....	1950	....	192	43	....
Total	3216	3625	3965	3596	3369	7795	26015	62300	28861	3148	2920	2206
Mean.	104	121	128	116	120	251	867	2010	962	102	94.2	73.5
Max..	124	150	160	130	143	727	1750	2610	2290	263	232	130
Min...	90	93	102	100	107	110	493	1520	278	34	40	35
Acre-ft.	6380	7190	7860	7130	6680	15460	51600	123600	57240	6240	5790	4380

Total run-off for water year 1938-39=299,600 acre-feet.

Discharge of Yampa River at Steamboat Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	95	110	72	65	74	112	388	673	2620	235	74	40
2....	86	117	79	79	77	127	384	709	2570	356	65	23
3....	77	112	72	90	81	114	293	810	2440	361	56	24
4....	84	107	72	90	84	120	285	1070	2210	289	56	29
5....	95	112	72	90	77	114	356	1250	1890	242	51	26
6....	98	117	74	88	79	104	410	1340	1620	211	48	26
7....	102	114	81	85	81	114	384	1380	1410	174	50	26
8....	107	110	74	82	68	107	361	1410	1320	146	53	20
9....	114	117	79	77	81	107	370	1610	1120	127	53	20
10....	124	102	79	77	88	106	379	1870	1080	114	50	27
11....	122	86	74	88	72	105	301	2110	1050	110	63	26
12....	114	100	90	90	84	104	263	2220	1040	90	56	18
13....	110	110	68	81	79	104	330	2380	1040	86	48	14
14....	110	107	79	84	74	104	515	2210	1020	86	40	34
15....	110	93	81	60	65	104	733	2240	954	84	35	48
16....	110	95	79	66	77	107	758	2480	914	72	35	51
17....	107	79	97	70	66	120	673	2530	810	72	34	54
18....	97	74	97	65	70	127	581	2150	745	90	34	65
19....	97	88	95	60	74	130	614	2150	673	107	30	70
20....	95	86	48	59	70	143	679	2120	603	90	32	74
21....	90	102	61	60	79	146	703	1980	592	77	24	84
22....	90	127	58	58	77	165	691	1710	554	68	26	117
23....	93	84	54	66	72	211	625	1720	476	74	24	112
24....	90	95	56	68	77	246	733	1770	420	65	30	97
25....	77	97	63	65	79	267	914	1860	348	65	38	84
26....	86	90	68	68	81	285	934	1950	301	63	86	107
27....	97	95	70	77	81	297	927	2430	263	56	117	198
28....	95	86	64	74	88	285	914	2440	235	61	107	140
29....	102	81	54	86	100	249	862	2470	211	74	88	146
30....	95	68	50	86	....	235	790	2490	204	74	70	174
31....	107	....	56	86	....	281	....	2520	....	74	53	....
Total	3076	2961	2216	2340	2255	4940	17150	58052	30733	3893	1626	1974
Mean.	99.2	98.7	71.5	75.5	77.8	159	572	1873	1024	126	52.5	65.8
Max..	124	127	97	90	100	297	934	2530	2620	361	117	198
Min...	77	68	48	58	65	104	263	673	204	56	24	14
Acre-ft.	6100	5870	4400	4640	4470	9800	34020	115100	60960	7720	3230	3920

Total run-off for water year 1939-40=260,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River Near Maybell, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	210	275	472	250	280	275	2110	6670	5440	1010	152	60
2....	204	318	472	240	270	275	2220	7150	6420	931	285	57
3....	207	334	508	235	255	280	2580	7590	5380	872	394	56
4....	197	352	496	240	252	302	3050	7610	4470	808	307	55
5....	228	382	520	250	255	307	3130	7410	4810	744	235	56
6....	240	376	562	270	256	310	3160	7570	5280	706	207	63
7....	204	340	514	280	258	318	2760	7610	4880	650	192	78
8....	204	296	394	270	260	320	2660	6200	4070	550	183	113
9....	232	302	472	265	255	328	2560	5180	3590	460	194	472
10....	250	376	324	265	255	355	2970	5580	3290	388	189	472
11....	275	340	329	257	265	364	2840	6230	2920	352	178	364
12....	285	352	340	260	265	400	2520	6160	2780	318	161	280
13....	280	255	300	260	258	500	2350	5900	2720	260	148	312
14....	260	228	288	258	265	580	2510	5060	2850	218	137	448
15....	250	290	300	255	270	760	2920	5360	2970	197	132	370
16....	245	290	305	260	275	1100	2990	6030	2960	192	128	307
17....	250	312	300	260	250	1500	2800	6560	2550	178	123	260
18....	265	265	280	265	245	1800	2060	6200	2410	170	111	224
19....	280	329	292	265	230	1600	2090	6620	2050	152	104	200
20....	290	329	298	255	235	1670	2200	7000	1780	139	100	183
21....	296	364	322	260	235	1540	2260	7240	1630	123	92	175
22....	270	270	306	250	230	1720	2300	6690	1620	118	81	170
23....	265	240	292	245	228	1940	2860	6290	1690	111	76	170
24....	265	240	300	225	235	1790	3490	6420	1460	106	77	165
25....	255	245	296	210	245	2060	3420	6050	1400	105	76	168
26....	245	260	292	210	260	2300	3540	5060	1420	105	75	210
27....	235	280	280	220	265	2510	3750	4340	1380	102	72	240
28....	240	330	280	250	270	2760	3840	4060	1280	100	68	265
29....	245	394	285	255	....	2840	4980	4240	1180	100	64	265
30....	250	460	300	265	....	2600	6010	4750	1100	100	62	260
31....	245	....	290	270	....	2300	....	5380	....	104	60	....
Total	7667	9424	11009	7820	7122	37704	88930	190210	87780	10469	4463	6518
Mean.	247	314	355	252	254	1216	2964	6136	2926	338	144	217
Max..	296	460	562	280	280	2840	6010	7610	6420	1010	394	472
Min...	197	228	280	210	228	275	2060	4060	1100	100	60	55
Acre-ft.	15210	18690	27840	15510	14130	74780	176400	377300	174100	20760	8850	12930

Total run-off for water year 1938-39=930,500 acre-feet.

Discharge of Yampa River Near Maybell, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	352	270	197	157	200	460	1130	3400	6230	752	121	66
2....	329	250	204	172	250	448	1430	2850	6560	744	120	64
3....	285	285	197	194	250	448	1600	3180	6560	840	113	59
4....	275	285	180	189	240	448	1200	4160	6510	982	110	48
5....	265	296	168	192	228	448	1100	5700	5940	931	105	44
6....	255	296	163	178	224	448	1220	6230	5540	816	99	42
7....	285	296	175	165	224	448	1390	6160	4830	685	96	41
8....	324	296	192	163	224	406	1370	6030	3820	615	92	41
9....	358	318	265	152	221	424	1180	6140	3750	538	86	42
10....	358	312	235	141	218	430	1200	6730	3160	484	82	58
11....	376	312	232	143	221	412	1300	7300	2700	424	77	44
12....	370	302	172	135	221	418	1170	7770	2780	340	74	47
13....	364	250	137	128	218	358	948	8210	2980	307	70	49
14....	352	260	132	130	221	312	965	8850	3110	280	68	74
15....	334	265	128	114	221	312	1420	8090	3210	250	65	59
16....	329	265	163	120	221	312	2230	7260	3100	210	62	50
17....	318	255	189	125	218	340	2380	7820	3130	270	57	47
18....	302	210	170	125	218	400	2180	8180	2960	245	55	48
19....	296	189	125	116	221	394	2010	6890	2580	240	52	55
20....	290	180	114	126	221	424	2380	6250	2330	302	50	64
21....	285	175	141	130	218	460	2840	6160	2340	296	47	69
22....	275	186	95	132	224	520	3190	6030	2610	245	45	76
23....	260	210	126	150	235	574	4130	5140	2180	214	51	128
24....	250	228	132	168	255	643	4450	4810	1910	189	44	141
25....	245	221	139	170	270	784	3860	4730	1630	172	49	172
26....	280	200	139	175	312	880	5080	5020	1380	163	120	175
27....	290	218	137	180	352	1070	4920	5120	1230	128	60	159
28....	280	240	123	175	436	1260	5080	6250	1080	118	49	204
29....	296	240	150	172	448	1250	4730	6290	940	113	54	275
30....	285	200	146	178	....	1010	4290	5920	840	116	63	302
31....	265	....	148	183	....	906	....	5700	....	116	70	....
Total	9428	7510	5014	4778	7230	17447	72373	188370	97920	12125	2306	2743
Mean.	304	250	162	154	249	563	2412	6076	3264	391	74.4	91.4
Max..	376	318	265	194	448	1260	5080	8850	6560	982	121	302
Min...	245	175	95	114	200	312	948	2850	840	113	44	41
Ac.-ft.	18700	14900	9950	9480	14340	34610	143500	373600	194200	24050	4570	5440

Total run-off for water year 1939-40=847,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

SAN JUAN RIVER BASIN

SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in SE¼ Sec. 12, T. 36 N., R. 1 W., at bridge ⅛ mile above mouth of West Fork of San Juan River and 9.5 miles northeast of Pagosa Springs.

Drainage Area—86.9 square miles.

Records Available—May, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 1,670 second feet, May 14, 1938. Gage height 3.25 feet.

Greatest known flood occurred October 5, 1911 (discharge not determined).

Maximum Discharge—Year 1938; 1,670 second feet, May 14, 1938. Gage height 3.25 feet.

Maximum Discharge—Year 1939; 580 second feet, March 17, 1939. Gage height 3.76 feet.

Maximum Discharge—Year 1940; 1,600 second feet, May 17, 1940. Gage height 5.16 feet.

Accuracy—Records considered good except those for periods of ice effect December 19, 1937, to February 19, 1938; November 15 to March 21, 1939, and from November 16-28, December 1, 1939, to January 4, 1940, January 14-25, February 6-20, and those for March 21 to April 24, 1940, which were computed on basis of 3, 7 and 2 discharge measurements for each period, weather records and comparison with record of San Juan River at Pagosa Springs, and are fair.

SAN JUAN RIVER AT PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in S½ Sec. 13, T. 35 N., R. 2 W., under lower highway bridge at Pagosa Springs. Prior to 1935 record was based on daily staff gage readings. Records are comparable.

Drainage Area—298 square miles. Zero of gage is 7,052.03 feet above mean sea level.

Records Available—January, 1911, to November, 1914; May, 1935, to September 30, 1940.

Maximum discharge observed during period 1911-14, 1935-40; 4,710 second feet, June 15, 1935.

Maximum Discharge—Year 1939; 1,510 second feet, May 22, 1939. Gage height 5.22 feet.

Maximum Discharge—Year 1940; 1,600 second feet, May 17, 1940. Gage height 5.16 feet.

Accuracy—Records considered good except for period of missing gage heights March 19-24, 1939, which were computed on basis of combined flow for San Juan River and West Fork near Pagosa Springs, and are fair.

Diversions for irrigation above station.

SAN JUAN RIVER AT ROSA, NEW MEXICO

Location—Water stage recorder in Sec. 21, T. 32 N., R. 5 W., at Rosa, about 75 feet above highway bridge and ¼ mile below mouth of Piedra River. From 1895 to 1899 and August 21, 1910, to September 30, 1920, a station was maintained at Arboles. For this period the San Juan River at Arboles, plus the Piedra River at Arboles, gives the total flow of San Juan at Rosa. Prior to May 13, 1937, water stage recorder located about 100 feet upstream.

Drainage Area—1,990 square miles.

Records Available—October 1, 1920, to September 30, 1940.

Maximum discharge observed during period 1930-40; about 10,400 second feet, June 21, 1935. Gage height 7.60 feet.

Maximum Discharge—Year 1939; 5,670 second feet, March 24, 1939. Gage height 5.29 feet.

Maximum Discharge—Year 1940; 3,780 second feet, May 18, 1940. Gage height 4.36 feet.

Accuracy—Discharges for periods of missing gage heights, February 10-12, 15-22, July 17, 18, 1939, computed on basis of weather records and records for San Juan River at Pagosa Springs and Farmington. Those for periods of ice effect, November 25 to December 8, and December 26, 1938, to March 20, 1939, and for December 13, 14, 16-20, 23, and December 25, 1939, to February 21, 1940, computed on basis of weather records and the records for the San Juan River at Pagosa Springs.

WEST FORK OF SAN JUAN RIVER ABOVE BORNS LAKE, NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 36, T. 38 N., R. 1 W., ½ mile below Beaver Creek, 1½ miles above Borns Lake, and 16 miles northeast of Pagosa Springs.

Drainage Area—41.2 square miles.

Records Available—April, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,100 second feet, June 3, 1938. Gage height 4.43 feet.

Maximum Discharge—Year 1939; 535 second feet, May 19, 1939. Gage height 3.33 feet.

Maximum Discharge—Year 1940; 430 second feet, May 14, 1940. Gage height 3.31 feet.

Accuracy—Records considered good except those for periods of missing gage heights, October 31, November 1-5, 7-12, 14-16, 1938, and for period of ice effect, November 20, 1938, to March

22, 1939, and from November 16, 1939, to April 17, 1940, which were computed on basis of discharge measurements and on basis of records for San Juan near Pagosa Springs, and are fair.

No diversions or regulations above station.

WEST FORK OF SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in NE¼ Sec. 12, T. 36 N., R. 1 W., 30 feet downstream from highway bridge, 0.6 mile above mouth and 10 miles northeast of Pagosa Springs.

Drainage Area—87.9 square miles.

Records Available—April 26, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 2,250 second feet, June 15, 1935. Gage height 6.83 feet.

Maximum Discharge—Year 1938; 2,030 second feet, May 28, 1938. Gage height 5.61 feet.

Maximum Discharge—Year 1939; 850 second feet, May 19, 1939. Gage height 3.53 feet.

Maximum Discharge—Year 1940; 735 second feet, May 14, 1940. Gage height 3.25 feet.

Accuracy—Records considered good except those for periods of ice effect, December 16, 1937, to February 19, 1938, February 26-27, computed on basis of 1 discharge measurement, and from November 25, 1938, to March 23, 1939, computed on basis of 5 discharge measurements, and those from December 14, 1939, to February 23, 1940, computed on basis of 3 discharge measurements, weather records and comparison with records of San Juan River at Pagosa Springs, and are fair.

TURKEY CREEK NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder at west side of Sec. 10, T. 36 N., R. 1 W., 2¼ miles above mouth and 8 miles northeast of Pagosa Springs.

Drainage Area—23.0 square miles.

Records Available—May 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 602 second feet, May 28, 1938. Gage height 3.20 feet.

Maximum Discharge—Year 1939; 209 second feet, May 10, 1939. Gage height 2.27 feet.

Maximum Discharge—Year 1940; 209 second feet, May 4, 1940. Gage height 2.33 feet.

Accuracy—Records considered fair. Records for periods of ice effect and missing gage heights, November 12, 1938, to March 21, 1939, computed on basis of 5 discharge measurements, weather records and records for station on Navajo River at Edith, and from November 16-26, December 13-17, and December 23, 1939, to March 19, 1940, computed on above basis, with 3 discharge measurements.

Diversions for irrigation above station.

RIO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in center of Sec. 1, T. 34 N., R. 1 E., at highway bridge 0.3 mile above mouth of Leche Creek and 12.5 miles southeast of Pagosa Springs.

Drainage Area—58 square miles.

Records Available—May 24, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-1940; 1,340 second feet, May 17, 1937. Gage height 4.06 feet.

Maximum Discharge—Year 1939; 466 second feet, September 11, 1939. Gage height 2.92 feet.

Maximum Discharge—Year 1940; 516 second feet, May 17, 1940. Gage height 2.97 feet.

Accuracy—Records considered good. Records for period of ice effect, November 13, 14, 18, 19, 23-30, December 2, 3, 5-10, 13-15, 17, 18, and December 22, 1938, to March 19, 1939, and those from December 27, 1939, to February 23, 1940, which were computed on basis of 3 and 2 discharge measurements, each period, weather records and records for San Juan River at Pagosa Springs, and are fair.

Diversions for irrigation above station.

RITO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in SW¼ Sec. 12, T. 34 N., R. 1 W., at road crossing 0.1 mile above Sheep Cabin Creek and 7¾ miles southeast of Pagosa Springs.

Drainage Area—23.3 square miles.

Records Available—May 1, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 310 second feet, June 9, 1935. Gage height 2.87 feet.

Maximum Discharge—Year 1939; 96 second feet, April 28, 1939. Gage height 2.29 feet.

Maximum Discharge—Year 1940; 134 second feet, May 17, 1940. Gage height 2.31 feet.

Accuracy—Records considered good except those for periods of ice effect, November 8-10, November 13, 1938, to March 20, 1939, and December 27, 1939, to February 7, 1940, February 17, 1940, to March 4, 1940, which were computed on basis of 6 and 2 discharge measurements, respectively, and weather records, and are fair.

Diversions for irrigation above station.

NAVAJO RIVER AT BANDED PEAK RANCH NEAR CHROMO, COLORADO

Location—Water stage recorder in NW¼ Sec. 24, T. 33 N., R. 2 E., on Banded Peak Ranch, ½ mile below mouth of Aspen Creek, and 9 miles northeast of Chromo.

Drainage Area—69.8 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 876 second feet, May 28, 1938. Gage height 3.42 feet.

Maximum Discharge—Year 1939; 466 second feet, May 19, 1939. Gage height 3.07 feet.

Maximum Discharge—Year 1940; 500 second feet, May 31, 1940. Gage height 3.05 feet.

Accuracy—Records considered good except those for periods of missing gage heights, October 7, 9, 13, 18-20, November 5-10, 1938, September 12-19, 1939, which were computed on basis of records at Edith, and those for period of ice effect, November 22, 1938, to March 18, 1939, and for December 27-31, 1939, January 14-23, 1940, and February 6-21, computed on basis of 1 discharge measurement and record for San Juan River at Pagosa Springs, and are fair.

No diversions or regulations above station.

NAVAJO RIVER NEAR CHROMO, COLORADO

Location—Water stage recorder in SW¼ Sec. 6, T. 32 N., R. 2 E., 3.5 miles east of Chromo.

Drainage Area—118 square miles.

Records Available—May 27, 1935, to November 13, 1939. (Discontinued.)

Maximum discharge observed during period 1935-39; about 1,920 second feet, June 16, 1935. Gage height 4.46 feet.

NAVAJO RIVER AT EDITH, COLORADO

Location—Water stage recorder in NW¼ Sec. 24, T. 32 N., R. 1 W., at highway bridge ¼ mile east of Edith and 1 mile above mouth of Coyote Creek. Prior to January 1, 1929, staff gage at same site but unknown datum.

Drainage Area—165 square miles.

Records Available—September, 1912, to December, 1928; June, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 2,370 second feet, April 15, 1937. Gage height 5.77 feet.

Maximum Discharge—Year 1939; 786 second feet, March 23, 1939. Gage height 3.61 feet.

Maximum Discharge—Year 1940; 635 second feet, May 18, 1940. Gage height 3.41 feet.

Accuracy — Records considered excellent except those for periods of ice effect, November 25, 1938, to March 22, 1939, and December 21, 1939,to March 20, 1940, computed on basis of 5 and 2 discharge measurements, each, and records for station on San Juan River at Pagosa Springs, and are fair.

LITTLE NAVAJO RIVER AT CHROMO, COLORADO

Location—Water stage recorder in SE¼ Sec. 4, T. 32 N., R. 1 E., at highway bridge at Chromo ¼ mile upstream from mouth.

Drainage Area—21.9 square miles.

Records Available—May 28, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 240 second feet (estimated), April 15, 1937.

Maximum Discharge—Year 1939; 135 second feet, March 23, 1939. Gage height 4.11 feet.

Maximum Discharge—Year 1940; 63 second feet, April 14, 1940. Gage height 2.66 feet.

Accuracy—Records considered good except for periods of missing gage heights, and ice effect periods, November 6, 7, November 9, 1938, to March 19, 1939, and December 26, 1939, January 3, 1940, January 14-24, February 7-11, 1940, which were computed on basis of 4 discharge measurements, weather records and records for San Juan River at Pagosa Springs, and are fair.

Diversions for irrigation above station.

PIEDRA RIVER AT BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 22, T. 37 N., R. 3 W., ¼ mile below Bridge Ranger station, 1 mile below mouth of Middle Fork, and 15 miles northwest of Pagosa Springs.

Drainage Area—82.3 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,060 second feet, May 28, 1938. Gage height 3.90 feet.

Maximum Discharge—Year 1939; 710 second feet, August 28, 1939. Gage height 3.15 feet.

Maximum Discharge—Year 1940; 586 second feet, May 14, 1940. Gage height 2.89 feet.

Accuracy—Records considered good except those for periods of missing gage heights, November 13-15, 1938, and those for ice effect period, November 25, 1938, to April 16, 1939, and November 17, 1939, to March 23, 1940, computed on basis of 2 discharge measurements, weather records and records for Williams and

Weminuchi' Creeks near Bridge Ranger Station, and are fair. Period from July 14-20, 22-26, 29-31, August 1-19, September 10-17, 1940, estimated.

Diversions for irrigation above station.

PIEDRA RIVER NEAR DYKE, COLORADO

Location—Water stage recorder in Sec. 5, T. 34 N., R. 4 W. (north of Ute Indian Reservation line), 1½ miles above bridge on U. S. Highway 450 and 8½ miles west of Dyke. Yellowjacket Canon enters 2 miles downstream.

Drainage Area—371 square miles. Zero of gage is 6,585.0 feet above mean sea level.

Records Available—October, 1939, to September 30, 1940.

Maximum Discharge—Year 1940; 1,220 second feet, May 5, 1940. Gage height 4.43 feet.

Accuracy—Records considered excellent except for ice effect period from November 20 to December 3, December 14 to January 27, February 13-14, computed on basis of 1 discharge measurement and record for San Juan River at Pagosa Springs. Record October 1-31, computed on basis of San Juan at Pagosa Springs.

Diversions for irrigation above station.

WILLIAMS CREEK NEAR BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 10, T. 37 N., R. 3 W., at bridge 2½ miles north of Ranger Station, 3½ miles above mouth and 17 miles northwest of Pagosa Springs.

Drainage Area—43.7 square miles.

Records Available—May 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 687 second feet, June 29, 1938. Gage height 3.24 feet.

Maximum Discharge—Year 1939; 227 second feet, May 22, 1939. Gage height 2.46 feet.

Maximum Discharge—Year 1940; 222 second feet, May 6, 1940. Gage height 2.22 feet.

Accuracy—Records considered good except for periods of ice effect from November 24, 1938, to April 27, 1939, and from November 29 to April 16, 1940, computed on basis of 2 discharge measurements, weather records and record for Piedra at Bridge Ranger Station and Dyke. For periods of missing gage heights, November 14, 1938, November 16-26, 1939, July 2-6, 8-17, discharges were computed on basis of records for station on Piedra River at Bridge Ranger Station and new Dyke and Weminuche Creek, and these are fair.

WEMINUCHE CREEK NEAR BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 5, T. 37 N., R. 3 W., 3½ miles northwest of Bridge Ranger Station, 5 miles above mouth and 19 miles northwest of Pagosa Springs.

Drainage Area—53.4 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 651 second feet, June 29, 1938. Gage height 4.73 feet.

Maximum Discharge—Year 1939; 290 second feet, May 10, 1939. Gage height 3.34 feet.

Maximum Discharge—Year 1940; 232 second feet, May 5, 1940. Gage height 3.11 feet.

Accuracy—Records considered good, except for period of missing gage heights or ice periods, November 23-26, December 7-10, December 14, 1938, to March 31, 1939, and November 12 to March 29, 1940, computed on basis of 2 discharge measurements and records of Piedra River near Dyke, and on weather records. Record from April 27 to May 2, 1940, estimated by comparison with Piedra Station at Dyke.

A few diversions for irrigation above station.

LOS PINOS RIVER BELOW SNOWSLIDE CANON NEAR WEMINUCHE PASS, COLORADO

Location—Water stage recorder in Sec. 5, T. 39 N., R. 4 W., 3¼ miles south of Weminuche Pass and 7 miles south of Rio Grande Reservoir.

Drainage Area—23.8 square miles.

Records Available—October, 1937, to September 30, 1940. June 7 to October, 1937, at site approximately 2 miles upstream.

Maximum discharge observed during period 1937-1940; 650 second feet, May 29, 1938. Gage height 3.26 feet.

Maximum Discharge—Year 1939; 300 second feet, May 10, 1939. Gage height 2.32 feet.

Maximum Discharge—Year 1940; 217 second feet, May 13, 1940. Gage height 2.04 feet.

Accuracy—Records considered excellent except record for April, 1939, estimated, and April 1 to May 9, 1940, computed on basis of record for Weminuche Creek near Bridge Ranger Station.

Trans-mountain diversion above station to Rio Grande basin.

PINE OR LOS PINOS RIVER NEAR BAYFIELD, COLORADO

Location—Water stage recorder in Sec. 26, T. 36 N., R. 7 W., 9 miles north of Bayfield and ¼ mile below Red Creek.

Drainage Area—284 square miles. Zero of gage is 7,415.08 feet above mean sea level.

Records Available—October 26, 1927, to September 30, 1940.

Maximum mean daily discharge observed during period 1927-1940; 5,070 second feet, May 26, 1926. (Greatest known flood occurred October 5, 1911. Discharge not determined.)

Maximum Discharge—Year 1939; 1,410 second feet, May 11, 1939. Gage height 3.98 feet.

Maximum Discharge—Year 1940; 1,100 second feet, May 17, 1940. Gage height 3.68 feet.

Accuracy — Records considered excellent except those for period of missing gage heights, October 29, November 25, 1938, computed on basis of 1 discharge measurement and for periods of ice effect, December 5-10, 1938, February 3, 6, February 10-26, 1939, and March 17-18, computed on basis of 1 discharge measurement and records for Animas River at Durango, and are good.

Diversions for irrigation above station. Natural regulation by numerous lakes. Vallecitos dam constructed about ¾ mile upstream; capacity 129,700 acre-feet, began storage April 18, 1940.

PINE OR LOS PINOS RIVER AT IGNACIO, COLORADO

Location—Water stage recorder in Sec. 5, T. 33 N., R. 7 W., ¾ mile above Ignacio and about 2 miles above Rock Creek.

Drainage Area—448 square miles.

Records Available—April 22, 1899, to October 31, 1903; September 1, 1910, to November 30, 1912; March 10, 1913, to September 30, 1940.

Maximum discharge observed during period 1910-14, 1930-40; 5,570 second feet, August 27, 1932. Gage height 6.19 feet.

Maximum Discharge—Year 1939; 1,060 second feet, May 11, 1939. Gage height 3.53 feet.

Maximum Discharge—Year 1940; 754 second feet, May 17, 1940. Gage height 3.12 feet.

Accuracy—Records considered good except those for period of ice effect, December 29, 1938, to January 6, 1939, January 14-21, January 25 to March 12, 1939, and for missing gage height July 28, which were computed on basis of 6 discharge measurements, weather records and records Animas River at Farmington, N. M., and are fair. Records for period of ice effect December 20, 1939, to February 3, 1940, February 6, 9, 10, 13, and for periods of missing gage heights October 15-20, November 9, 1940, computed on above basis and 5 discharge measurements, and are poor.

Diversions for irrigation above station.

ANIMAS RIVER AT HOWARDSVILLE, COLORADO

Location—Water stage recorder in Sec. 12, T. 41 N., R. 7 W., 0.4 miles southwest of Howardsville, and ½ mile below mouth of Cunningham Creek.

Drainage Area—55.9 square miles. Zero of gage is 9,616.98 feet above mean sea level. Datum lowered 1 ft. August 18, 1939.

Records Available—May 1, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 1,700 second feet, June 21, 1938. Gage height 3.50 feet.

Maximum Discharge—Year 1939; 662 second feet, June 4, 1939. Gage height 1.87 feet.

Maximum Discharge—Year 1940; 800 second feet, May 31, 1940. Gage height 3.10 feet.

Accuracy—Records considered excellent except for periods of missing gage heights and ice effect, October 5-10, November 7, 13-14, 17-30, 1938, April 1-30, 1939, and December 25-30, January 7-11, 1940, January 13-20, 22-24, 28, which were computed on basis of 1 discharge measurement and records for adjacent station.

No diversions above station.

ANIMAS RIVER AT DURANGO, COLORADO

Location—Water stage recorder in Sec. 20, T. 35 N., R. 9 W., at Western Colorado Power Company's plant in Durango, and ½ mile above mouth of Lightner Creek.

Drainage Area—692 square miles. Zero of gage is 6,503.28 feet above mean sea level.

Records Available—June 20, 1895, to December 31, 1905; January 1, 1910 to September 30, 1940.

Maximum discharge observed during period 1895-1905, 1910-1940; about 25,000 second feet, October 5, 1911. Gage height 13.6 feet, from rating curve extended above 7,000 second feet.

Maximum Discharge—Year 1939; 2,750 second feet, May 22, 1939. Gage height 4.08 feet.

Maximum Discharge—Year 1940; 3,170 second feet, May 15, 1940. Gage height 4.43 feet.

Accuracy—Records considered excellent except those for period of ice effect, February 3, 5-8, 10-14, 1939, and for missing gage heights February 22 to March 5, 1940, and which are good.

Diversions for irrigation above station. Regulation of flow for power and by numerous lakes.

MINERAL CREEK NEAR SILVERTON, COLORADO

Location—Water stage recorder in Sec. 13, T. 41 N., R. 8 W., 300 feet above mouth of Bear Creek and 2 miles west of Silverton.

Drainage Area—43.9 square miles.

Records Available—May 1, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 1,700 second feet, June 29, 1938. Gage height 4.69 feet.

Maximum Discharge—Year 1939; 510 second feet, June 4, 1939. Gage height 2.92 feet.

Maximum Discharge—Year 1940; 660 second feet, May 31, 1940. Gage height 3.23 feet.

Accuracy—Records are good except those for periods of missing gage heights, October 7-10, 1938, March 1-10, March 14 to April 22, 1939, computed on basis of records for adjacent station, and are fair. Records for period of ice effect January 14-24, 1940, and January 29 to February 17, 1940, computed on basis of 1 discharge measurement and records for adjacent stations, and are fair.

No diversions above station.

CASCADE CREEK NEAR TACOMA, COLORADO

Location—Water stage recorder in Sec. 11, T. 39 N., R. 9 W., near Power Company caretaker's house where Durango-Silverton U. S. Highway No. 550 crosses Cascade Creek, 10 miles north of Tacoma.

Drainage Area—26.8 square miles. Altitude, 8,853 feet above mean sea level.

Records Available—January 1, 1915, to September 30, 1940.

Complete records furnished by the Western Colorado Power Company.

No diversions above station. Flow in flume combined with flow over diversion dam to get total flow in creek. Staff gage read twice daily.

LIGHTNER CREEK NEAR DURANGO, COLORADO

Location—Water stage recorder in Sec. 30, T. 35 N., R. 9 W., ½ mile above northwest edge of Durango. Moved to this location October 1, 1939, to replace station 2 miles upstream. Flow comparable.

Drainage Area—66 square miles.

Records Available—July 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1927-1938; 1,830 second feet, June 26, 1937, by slope-area method. Gage height 5.00 feet, from flood marks.

Maximum Discharge—Year 1939; 590 second feet, September 8, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 322 second feet, August 24, 1940. Gage height 2.92 feet.

Accuracy—Records considered fair. Those for period of missing gage heights, October 23 to November 3, November 12-14, 25-31, 1938, and March 1-8, 1939, and for ice effect periods, November 13-20, December 27-31, 1939, and from March 1-5, 1940, were estimated, and are poor.

Diversions for irrigation above station.

FLORIDA RIVER NEAR DURANGO, COLORADO

Location—Water stage recorder in Sec. 4, T. 35 N., R. 8 W., 10½ miles northeast of Durango and just below mouth of Red Creek. During period of record this station has been located at several different sites in same vicinity. Prior to October 1, 1934, station was located ¼ mile downstream; different datum. All records are comparable.

Drainage Area—96 square miles. Zero of gage is 7,301.88 feet above mean sea level. Revised.

Records Available—May 21 to July 31, 1899; April 1, 1901, to October 5, 1903; September 8, 1910, to September 30, 1924; April 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1899, 1901-3, 1910-24, 1927-40; 4,640 second feet, June 28, 1927. Gage height 4.50 feet, former site and datum. Greatest known flood occurred October 5, 1911. (Discharge not determined.)

Maximum Discharge—Year 1939; 531 second feet, May 10, 1939. Gage height 2.68 feet.

Maximum Discharge—Year 1940; 565 second feet, May 14, 1940. Gage height 2.75 feet.

Accuracy—Records considered good except for periods of ice effect and missing gage heights, November 14, 1938, to March 22, 1939, and November 25, 1939, to March 18, 1940, which were computed on basis of 5 discharge measurements, weather records, and records for Los Pinos River near Bayfield, and are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT HESPERUS, COLORADO

Location—Water stage recorder in Sec. 14, T. 35 N., R. 11 W., at weir ⅛ mile west of Hesperus.

Drainage Area—37 square miles. Zero of gage is 8,100.65 feet above mean sea level.

Records Available—June 15 to August 11, 1904; April 1, 1906, to August 11, 1908; August 24 to December 31, 1910; May 25, 1917, to September 30, 1940.

Maximum discharge observed during period 1904, 1906, 1910, 1917-40; 1,460 second feet, June 28, 1927. Gage height 4.60 feet, former datum.

Maximum Discharge—Year 1939; 206 second feet, May 9, 1939. Gage height 1.66 feet.

Maximum Discharge—Year 1940; 250 second feet, May 15, 1940. Gage height 1.80 feet.

Accuracy—Records considered good except those for periods of ice effect, November 23, 1938, to March 23, 1939, and December 19, 1939, to March 20, 1940, which were computed on basis of 10 and 5 discharge measurements, respectively, and weather records, and are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

Location—Water stage recorder in Sec. 10, T. 32 N., R. 13 W., 300 feet south of Colorado-New Mexico State Line at Hill ranch and 3 miles north of Pendleton, New Mexico.

Drainage Area—331 square miles. Zero of gage is 5,975.15 feet above mean sea level.

Records Available—February 19, 1920, to September 30, 1940.

Maximum discharge observed during period 1920-40; 4,750 second feet, August 24, 1927. Gage height 11.36 feet (revised, present datum).

Maximum Discharge—Year 1939; 792 second feet, September 10, 1939. Gage height 4.05 feet.

Maximum Discharge—Year 1940; 1,460 second feet, August 24, 1940. Gage height 5.83 feet.

Accuracy—Records considered good except those for periods of ice effect January 17, 1939, to March 3, 1939, computed on basis of 4 discharge measurements and weather records, and those for October 21-26, 1938, estimated. Records for ice effect period December 27, 1939, to January 31, 1940, computed on basis of 2 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CHERRY CREEK NEAR RED MESA, COLORADO

Location—Water stage recorder in Sec. 7, T. 33 N., R. 12 W., ½ mile above mouth and 2 miles northwest of Red Mesa.

Drainage Area—66 square miles.

Records Available—March 21, 1928, to September 30, 1940.

Maximum discharge observed during period 1928-1940; 1,480 second feet, August 25, 1940. Gage height 5.90 feet.

Maximum Discharge—Year 1939; 116 second feet, March 21-22, 1939. Gage height 1.82 feet.

Maximum Discharge—Year 1940; 1,480 second feet, August 25, 1940. Gage height 5.90 feet.

Accuracy—Records considered poor. Those for periods of missing gage heights, October 1-8, 26-28, 1938, November 15-17, 24-31, and March 1-16, 1939, and November 22-31, March 1-13, 1940, were computed on basis of discharge measurements and weather records.

Diversions for storage and irrigation above station.

EAST MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in NE¼ Sec. 24, T. 36 N., R. 13 W., 800 feet above mouth and 4 miles northeast of Mancos.

Drainage Area—11.1 square miles.

Records Available—March 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 145 second feet, April 28, 1938. Gage height 1.46 feet.

Maximum Discharge—Year 1939; 50 second feet, May 9, 1939. Gage height 1.00 feet.

Maximum Discharge—Year 1940; 90 second feet, May 15, 1940. Gage height 1.23 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

MIDDLE MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in SE¼ of Sec. 13, T. 36 N., R. 13 W., just above bridge on road to Red Arrow Mine, 500 feet above mouth and 4 miles northeast of Mancos.

Drainage Area—13.7 square miles.

Records Available—March 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 131 second feet, May 17, 1938. Gage height 2.64 feet.

Maximum Discharge—Year 1939; 33 second feet, April 22, 1939. Gage height 1.91 feet.

Maximum Discharge—Year 1940; 47 second feet, May 4, 1940. Gage height 2.12 feet.

Accuracy—Records considered fair except for periods from April 24, 1939, to May 4, July 19 to 28, December 15-31, 1939, and March 1-13, 1940, which were computed on basis of records for East and West Mancos River near Mancos.

Diversions for irrigation above station.

WEST MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in Sec. 14, T. 36 N., R. 13 W., 1½ miles above mouth and 3½ miles northeast of Mancos.

Drainage Area—42.1 square miles.

Records Available—April 26, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 380 second feet, June 29, 1938. Gage height 2.93 feet.

Maximum Discharge—Year 1939; 133 second feet, May 1, 1939. Gage height 1.99 feet.

Maximum Discharge—Year 1940; 247 second feet, May 17, 1940. Gage height 2.49 feet.

Accuracy—Records considered good except those for ice effect period, November 8-31, 1938, March 1-22, 1939, which were computed by comparison of records of East and Middle Mancos river near Mancos, and are fair.

Diversions for irrigation above station.

MANCOS RIVER NEAR TOWAOC, COLORADO

Location—Water stage recorder in Sec. 18, T. 32 N., R. 17 W., near timber highway bridge on U. S. Highway 84 and 12 miles south of Towaoc, and 28 miles south of Cortez. This station was moved to the highway bridge March 16, 1940. Records are comparable with those at former location.

Drainage Area—550 square miles. Zero of the gage is 5,051.17 feet above mean sea level.

Records Available—February, 1921, to September 30, 1940.

Maximum discharge observed during period 1921-40; 4,900 second feet, August 26, 1934, by slope-area method. Gage height 6.55 feet, present datum.

Maximum Discharge—Year 1939; 1,170 second feet, September 10, 1939. Gage height 3.90 feet.

Maximum Discharge—Year 1940; 4,600 second feet, September 22, 1940. Gage height 8.65 feet.

Accuracy—Records considered good except for period of ice effect and missing gage heights, October 23 to November 1, 1939, January 16, 1940, to February 8, and April 23 to May 8, computed on basis of discharge measurements, weather records and comparison La Plata river at State Line.

Discharge of San Juan River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Sept. 1938	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	54	31	35	22	12	9	14	89	381	381	62	36	22
2....	84	32	34	20	13	10	14	112	389	365	58	36	21
3....	68	30	31	16	13	12	15	134	389	365	56	33	20
4....	77	32	32	17	12	12	15	136	385	413	52	31	18
5....	81	33	33	18	10	11	16	132	421	401	51	28	20
6....	75	40	26	18	11	11	16	138	437	341	48	30	24
7....	71	91	22	18	11	11	16	130	385	274	45	33	34
8....	91	110	33	17	12	11	16	150	389	264	42	29	59
9....	57	80	33	19	11	10	17	193	413	250	42	26	46
10....	63	67	28	21	11	11	18	175	449	250	39	26	41
11....	178	59	26	23	10	11	19	141	433	247	36	24	118
12....	214	53	25	18	9	11	20	143	417	232	35	22	75
13....	146	53	28	14	10	12	22	160	425	226	33	22	72
14....	110	53	30	13	10	12	25	163	405	217	32	23	104
15....	91	59	31	15	11	11	28	141	377	187	33	22	116
16....	91	72	30	17	11	11	32	122	325	155	32	20	83
17....	75	70	29	16	11	12	44	110	285	141	30	21	71
18....	64	57	.28	14	11	12	54	108	325	122	29	22	57
19....	57	52	27	16	10	12	62	128	445	106	28	21	59
20....	54	49	27	15	10	11	72	158	469	94	26	20	50
21....	52	46	26	16	11	11	78	229	453	91	26	22	45
22....	48	44	24	15	11	12	83	285	469	91	26	22	40
23....	45	41	18	13	11	13	96	285	441	94	24	19	37
24....	43	38	18	11	10	13	114	232	397	91	24	18	35
25....	41	37	19	12	10	13	102	196	341	85	22	20	36
26....	39	36	19	13	10	12	106	190	297	78	24	25	57
27....	36	36	19	12	11	13	100	220	309	75	35	39	58
28....	36	35	20	13	11	13	78	278	321	70	43	39	53
29....	33	33	20	13	11	....	65	349	333	68	46	36	53
30....	32	33	21	14	10	....	60	361	349	65	47	26	42
31....	....	33	....	13	10	....	65	....	361	....	46	24	....
Total	2206	1535	792	492	335	323	1482	5388	12015	5839	1172	815	1566
Mean.	73.5	49.5	26.4	15.9	10.8	11.5	47.8	180	388	195	37.8	26.3	52.2
Max..	214	110	35	23	13	13	114	361	469	413	62	39	118
Min...	32	30	18	11	9	9	14	89	285	65	22	18	18
Acre-ft.	4380	3040	1570	976	664	641	2940	10690	23830	11580	2320	1620	3110

Total run-off for water year 1938-39=62,980 acre-feet.

Discharge of San Juan River Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	39	20	8.2	8.0	8.2	14	64	142	381	73	22	26
2....	35	19	8.6	7.7	7.6	12	62	178	381	64	21	28
3....	33	18	9.0	8.5	8.2	12	61	257	345	57	19	35
4....	31	17	9.6	9.0	8.5	11	59	353	317	54	17	28
5....	27	18	9.1	9.1	7.3	12	77	365	289	51	16	24
6....	26	19	8.6	7.6	6.6	12	76	365	274	51	26	22
7....	26	18	8.8	6.0	6.6	11	74	369	250	44	33	22
8....	33	16	8.6	6.8	6.4	13	76	349	232	41	33	24
9....	32	18	9.2	7.9	6.2	16	77	329	211	39	23	20
10....	29	15	9.0	7.9	6.6	18	80	369	185	37	19	19
11....	26	14	8.5	7.3	8.0	16	87	369	170	37	19	19
12....	25	14	8.0	7.3	7.2	14	95	361	160	40	17	19
13....	24	13	6.8	6.6	7.0	13	120	401	160	39	16	42
14....	23	11	7.4	6.5	8.0	19	150	453	170	45	17	31
15....	21	10	7.9	6.6	9.4	18	195	449	160	39	18	28
16....	20	9.6	8.5	7.0	9.0	24	175	445	147	43	19	24
17....	19	9.5	8.0	7.7	8.2	29	130	490	140	36	18	27
18....	19	9.5	7.9	8.0	9.0	26	149	508	132	35	16	81
19....	18	9.6	6.5	7.8	9.5	34	178	409	126	32	17	97
20....	18	9.6	5.5	7.9	9.2	33	250	369	118	30	30	69
21....	17	9.6	6.4	8.6	8.5	37	265	313	111	30	52	56
22....	16	9.5	6.7	9.3	9.4	46	260	305	106	30	54	57
23....	16	9.3	8.2	9.1	8.8	54	285	309	99	27	42	49
24....	15	8.9	7.8	9.2	8.2	66	260	313	93	26	83	45
25....	18	8.8	8.6	9.4	8.2	86	226	305	88	24	75	48
26....	29	9.3	7.0	9.1	8.5	83	257	325	84	24	62	46
27....	20	9.2	6.0	8.5	9.1	80	268	357	75	39	52	40
28....	20	8.6	6.5	7.3	11	70	205	369	67	36	42	40
29....	20	8.2	7.2	7.9	13	62	168	369	76	29	37	48
30....	18	8.5	7.8	9.1	....	57	147	389	99	26	32	64
31....	19	....	8.3	9.1	....	60	....	393	....	23	29	....
Total	732	377.7	244.2	247.8	241.4	1058	4576	11077	5246	1201	976	1178
Mean.	23.6	12.6	7.88	7.99	8.32	34.1	153	357	175	38.7	31.5	39.3
Max..	39	20	9.6	9.4	13	86	285	508	381	73	83	97
Min...	15	8.2	5.5	6.0	6.2	11	59	142	67	23	16	19
Acre-ft.	1450	749	484	492	479	2100	9080	21970	10410	2380	1940	2340

Total run-off for water year 1939-40=53,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Juan River at Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	121	122	82	55	33	48	400	1020	1050	150	76	49
2....	121	122	77	60	41	44	465	1100	1020	140	68	45
3....	119	112	64	66	52	49	566	1040	1040	130	72	45
4....	115	115	74	63	49	52	708	1000	1140	122	63	38
5....	124	119	71	53	49	46	550	1090	1160	117	57	38
6....	153	104	71	68	48	46	520	1160	1010	104	57	95
7....	270	79	66	64	46	49	429	1020	848	95	88	130
8....	412	94	69	64	46	53	483	1050	790	92	68	164
9....	267	106	63	63	45	52	608	1150	736	90	55	166
10....	229	103	69	57	41	53	510	1290	715	82	53	140
11....	215	95	71	49	46	50	396	1300	701	76	52	342
12....	190	97	69	44	46	53	404	1220	650	72	46	258
13....	195	74	63	46	48	60	442	1060	614	66	44	276
14....	200	94	45	46	48	72	465	970	560	61	46	350
15....	208	103	61	46	45	95	396	911	496	64	43	372
16....	240	97	79	52	48	119	328	866	412	63	41	264
17....	249	94	74	52	45	142	295	736	357	55	40	240
18....	213	80	54	53	46	187	289	798	315	53	40	208
19....	197	90	74	48	48	225	335	1050	279	53	40	180
20....	182	92	64	48	46	270	404	1230	252	48	37	164
21....	175	87	68	54	45	320	608	1220	232	46	41	142
22....	168	87	63	53	44	440	766	1240	215	45	48	132
23....	159	58	52	49	45	600	822	1220	215	46	39	115
24....	150	54	41	45	46	540	656	1040	208	42	37	106
25....	144	58	48	44	49	478	555	902	190	42	35	103
26....	140	57	55	46	50	494	510	790	178	41	44	134
27....	134	63	48	48	48	494	602	848	166	50	79	159
28....	130	66	57	53	46	339	782	893	161	76	97	130
29....	124	69	54	48	....	315	930	920	150	85	146	136
30....	122	77	54	45	....	289	990	980	159	95	77	112
31....	119	....	58	44	....	318	....	980	....	85	60	....
Total	5585	2668	1958	1626	1289	6392	16214	32094	16019	2386	1789	4833
Mean.	180	88.9	63.2	52.5	46.0	206	540	1035	534	77.0	57.7	161
Max..	412	122	82	68	52	600	990	1300	1160	150	146	372
Min...	115	54	41	44	33	44	289	736	150	41	35	38
Acre-ft.	11080	5290	3880	3230	2560	12680	32160	63660	31770	4730	3550	9590

Total run-off for water year 1938-39=184,200 acre-ft.

Discharge of San Juan River at Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	103	74	38	36	45	71	221	376	1150	187	63	72
2....	94	74	40	35	41	63	208	496	1080	155	58	69
3....	88	69	40	38	39	60	180	798	1000	138	52	94
4....	84	69	45	40	44	60	173	1110	920	128	48	79
5....	79	69	44	39	41	63	195	1190	839	126	44	66
6....	77	74	40	39	37	61	195	1160	758	121	63	60
7....	74	71	41	33	41	58	187	1140	674	106	77	58
8....	97	66	40	35	41	63	192	1060	602	99	68	57
9....	92	77	42	40	39	79	197	980	525	90	52	53
10....	82	68	43	40	39	88	205	1080	442	87	46	53
11....	79	66	40	39	41	82	205	1080	400	85	44	57
12....	72	68	38	37	44	69	229	1040	365	87	41	52
13....	71	64	30	32	37	52	298	1130	353	79	40	82
14....	69	58	32	30	40	57	424	1270	361	87	40	72
15....	68	55	32	33	45	77	474	1290	346	77	44	71
16....	66	53	38	37	42	103	396	1280	318	82	43	58
17....	64	53	37	39	38	126	346	1370	295	76	42	58
18....	58	49	36	38	41	119	350	1340	276	72	39	190
19....	57	52	29	40	43	134	483	1130	267	69	44	357
20....	53	48	23	35	41	144	680	1020	249	64	71	255
21....	50	52	28	40	36	168	798	902	240	68	99	190
22....	50	50	28	37	43	210	782	848	258	64	94	218
23....	50	48	37	36	44	249	857	920	249	61	82	192
24....	49	45	34	40	43	279	830	930	210	60	157	173
25....	54	43	39	40	44	315	736	950	192	54	182	161
26....	95	46	38	40	45	308	766	1000	182	54	148	161
27....	71	49	25	40	50	270	814	1070	175	84	130	146
28....	69	44	27	36	53	246	614	1110	155	140	103	142
29....	76	41	32	37	61	208	483	1120	155	90	95	202
30....	71	41	35	40	....	192	404	1130	240	77	84	270
31....	76	....	37	41	....	218	....	1160	....	74	74	....
Total	2238	1736	1108	1162	1238	4292	12922	32480	13276	2841	2267	3768
Mean.	72.2	57.9	35.7	37.5	42.7	138	431	1048	443	91.6	73.1	126
Max..	103	77	45	41	61	315	857	1370	1150	187	182	357
Min...	49	41	23	30	36	52	173	376	155	54	39	52
Acre-ft.	4440	3440	2200	2300	2460	8510	25630	64420	26330	5640	4500	7470

Total run-off for water year 1939-40=157,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Juan River at Rosa, New Mexico, for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	352	398	240	170	120	140	1720	3020	2390	430	324	212
2....	336	410	250	170	140	140	2130	3320	2320	390	234	186
3....	369	392	240	180	110	160	2390	3090	2390	360	186	163
4....	369	369	200	200	130	170	3020	2940	2520	330	196	145
5....	358	364	230	190	120	150	2390	3090	2730	300	186	142
6....	440	369	220	160	130	140	2390	3390	2390	280	168	281
7....	1000	300	210	210.	160	160	1830	2940	1890	260	201	315
8....	2420	248	200	190	170	180	1830	2870	1770	230	266	457
9....	1270	319	164	190	140	200	2200	3020	1660	210	212	688
10....	987	344	173	180	120	200	2130	3320	1600	200	176	677
11....	851	335	192	170	130	190	1660	3390	1600	181	163	1460
12....	771	315	185	150	140	220	1600	3240	1500	172	150	963
13....	723	267	179	140	150	270	1660	2940	1410	154	138	938
14....	731	224	143	140	140	310	1770	2730	1320	145	128	1460
15....	731	275	167	140	160	370	1660	2590	1170	163	128	1980
16....	779	303	176	130	170	440	1430	2460	1020	218	117	1130
17....	819	299	213	120	170	520	1240	2130	892	180	114	938
18....	763	267	185	140	160	810	1150	2070	787	150	110	806
19....	685	238	167	160	150	1070	1240	2590	678	128	110	666
20....	626	271	199	180	140	1500	1400	3160	605	114	107	600
21....	591	291	188	190	130	1990	1830	3160	538	92	101	526
22....	557	267	179	180	140	2660	2320	3240	524	89	110	466
23....	524	238	137	170	160	3780	2660	3160	570	104	114	410
24....	492	137	125	160	180	3470	2200	2870	570	104	107	374
25....	472	150	122	140	170	2800	1890	2460	544	98	95	349
26....	460	150	130	130	150	2660	1720	2010	512	73	98	383
27....	434	160	130	140	150	2730	1830	2070	466	80	110	644
28....	434	180	140	150	150	1830	2260	2130	446	150	308	486
29....	416	200	140	140	....	1600	2870	2200	416	340	673	438
30....	404	220	150	120	....	1410	2940	2320	404	506	410	400
31....	404	....	160	140	....	1330	....	2320	....	366	266	....
Total	20568	8300	5534	4970	4080	33600	59360	86240	37632	6597	5806	18683
Mean.	663	277	179	160	146	1084	1979	2782	1254	213	187	623
Max..	2420	410	250	210	180	3780	2940	3390	2730	506	673	1980
Min...	336	137	122	120	110	140	1150	2010	404	73	95	142
Acre-ft.	40800	16460	10980	9860	8090	66640	117700	171100	74640	13080	11520	37060

Total run-off for water year 1938-39=577,930 acre-feet.

Discharge of San Juan River at Rosa, New Mexico, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	348	232	174	110	170	414	870	1090	2430	600	168	223
2....	314	232	164	110	210	383	848	1180	2260	454	158	218
3....	290	238	169	130	230	348	760	1730	2020	362	145	218
4....	278	232	164	140	200	334	710	2510	1860	327	128	234
5....	260	227	174	160	180	362	720	2830	1690	327	128	212
6....	249	244	174	150	160	348	750	2750	1540	320	128	190
7....	238	244	174	140	140	296	710	2750	1390	296	168	176
8....	249	238	174	130	160	320	690	2670	1230	272	218	172
9....	296	244	169	140	160	438	690	2300	1170	244	181	163
10....	272	272	174	160	150	533	710	2510	1000	210	142	150
11....	260	244	174	160	150	533	700	2590	914	196	131	154
12....	249	244	169	170	160	362	720	2510	848	186	138	150
13....	249	244	150	140	170	284	870	2510	804	172	131	163
14....	238	222	130	110	150	254	1180	2830	826	196	124	206
15....	227	210	119	90	180	290	1510	2920	837	212	134	181
16....	216	200	130	100	170	390	1350	2830	793	186	124	176
17....	216	196	150	120	160	570	1200	2920	771	196	120	168
18....	216	192	150	140	150	580	1160	3420	700	186	117	245
19....	200	196	140	150	170	610	1280	2750	660	181	101	734
20....	200	187	110	160	160	640	1790	2350	640	163	142	770
21....	196	192	104	160	180	710	2240	2060	560	138	280	537
22....	192	180	113	150	210	837	2180	2020	580	142	366	516
23....	192	190	120	140	205	992	2350	2220	670	145	400	537
24....	192	187	146	140	249	1080	2260	2080	560	145	579	486
25....	192	178	150	150	232	1140	1960	2050	488	142	644	438
26....	278	178	120	160	284	1210	1870	2020	462	201	476	457
27....	327	187	90	160	320	1100	2040	2200	430	181	410	457
28....	254	192	80	160	376	1090	1700	2340	383	308	332	428
29....	249	182	90	140	406	870	1420	2320	376	273	287	600
30....	249	174	100	150	....	771	1220	2320	680	223	266	926
31....	227	....	120	160	....	837	....	2350	....	196	240	....
Total	7613	6378	4365	4380	5842	18926	38458	73930	29572	7380	7106	10285
Mean.	246	213	141	141	201	611	1282	2385	986	238	229	343
Max..	348	272	174	170	406	1210	2350	3420	2430	600	644	926
Min...	192	174	80	90	140	254	690	1090	376	138	101	150
Ac.-ft.	15100	12650	8660	8690	11590	37540	76280	146600	58660	14640	14090	20400

Total run-off for water year 1939-40=424,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of San Juan River Above Borns Lake Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	36	40	22	13	7.6	8.0	37	210	390	41	22	16
2....	35	35	20	14	8.0	7.8	45	174	380	39	23	15
3....	34	36	19	14	9.0	8.0	52	144	395	38	21	15
4....	33	37	20	13	8.8	8.2	54	187	410	37	20	15
5....	40	37	21	12	8.6	8.2	47	296	415	35	19	23
6....	63	31	21	14	8.4	8.2	43	296	310	32	27	54
7....	104	28	21	14	8.4	8.2	44	228	241	30	29	52
8....	100	30	21	13	8.2	9.0	47	272	228	30	20	61
9....	83	35	20	13	8.0	9.8	63	310	221	30	18	53
10....	75	34	18	12	7.8	11	57	390	210	28	18	51
11....	73	33	17	11	8.0	12	50	390	206	26	18	97
12....	65	32	19	9.6	8.2	12	50	345	192	25	16	80
13....	73	31	18	10	8.4	13	53	306	176	24	16	91
14....	75	32	17	10	8.2	14	51	221	164	24	16	123
15....	76	32	17	10	8.0	16	46	214	160	24	15	105
16....	84	29	17	11	8.2	18	36	210	150	23	16	76
17....	78	27	16	11	8.0	20	35	192	139	22	15	69
18....	66	28	15	11	8.0	24	35	232	123	22	15	61
19....	61	29	16	10	7.6	28	41	360	110	20	15	54
20....	60	29	15	10	7.4	34	53	420	97	20	15	48
21....	61	27	15	10	7.2	39	79	450	78	20	18	44
22....	59	25	14	10	7.4	42	114	445	74	20	18	41
23....	55	18	13	10	7.4	45	100	405	66	20	16	38
24....	52	18	12	9.4	7.8	39	70	310	60	18	15	35
25....	50	18	13	8.8	8.0	39	57	228	56	18	18	35
26....	50	18	14	9.2	8.2	40	52	221	52	19	19	39
27....	48	19	13	9.4	8.0	33	61	221	49	23	37	38
28....	47	20	14	9.6	7.8	29	73	250	47	25	40	35
29....	43	21	13	9.2	....	26	87	291	45	25	40	33
30....	38	21	13	8.4	....	25	108	282	43	26	24	31
31....	37	...	14	7.8	....	30	....	355	....	24	18	....
Total	1854	850	518	337.4	224.6	664.4	1740	8855	5287	808	637	1528
Mean.	59.8	28.3	16.7	10.9	8.02	21.4	58.0	286	176	26.1	20.5	50.9
Max..	104	40	22	14	9.0	45	114	450	415	41	40	123
Min...	33	18	12	7.8	7.2	7.8	35	144	43	18	15	15
Acre-ft.	3680	1690	1030	669	445	1320	3450	17560	10490	1600	1260	3030

Total run-off for water year 1938-39=46,220 acre-feet.

Discharge of West Fork San Juan River Above Born's Lake Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	29	24	....	....	....	11	44	63	203	49	23	23
2....	28	23	....	....	....	10	41	97	171	45	21	24
3....	27	21	....	....	....	10	40	166	158	43	20	30
4....	26	20	....	....	....	10	37	224	142	43	18	24
5....	24	20	....	....	....	10	39	228	135	42	18	22
6....	24	21	....	....	....	11	39	217	123	39	23	20
7....	24	19	....	....	....	10	38	210	115	33	21	20
8....	32	18	....	....	....	10	39	179	110	30	19	19
9....	27	18	....	....	....	12	40	171	99	28	18	18
10....	25	18	....	....	....	13	42	187	86	26	17	20
11....	24	18	....	....	....	12	43	189	81	26	16	20
12....	24	18	....	....	....	12	46	179	75	24	16	21
13....	23	17	....	....	....	11	54	206	74	26	15	26
14....	23	15	....	....	....	12	70	224	72	26	15	21
15....	22	12	....	....	....	13	95	192	69	23	17	21
16....	21	12	....	....	....	13	80	187	65	23	16	19
17....	20	12	....	....	....	14	74	176	60	22	15	32
18....	20	12	....	....	....	16	70	162	58	22	15	90
19....	20	12	....	....	....	18	90	146	58	20	24	139
20....	18	12	....	....	....	22	124	135	56	21	32	83
21....	18	11	....	....	....	27	132	130	68	23	27	63
22....	18	11	....	....	....	33	135	146	78	21	24	70
23....	18	11	....	....	....	40	142	166	67	20	27	64
24....	18	10	....	....	....	46	157	176	57	19	55	58
25....	19	9	....	....	....	50	133	184	53	18	47	54
26....	17	10	....	....	....	54	156	206	55	23	42	54
27....	19	9	....	....	....	50	137	250	49	37	35	51
28....	21	8	....	....	....	48	90	263	47	30	30	54
29....	21	8	....	....	....	45	70	232	51	29	29	68
30....	22	8	....	....	....	40	59	224	65	32	25	68
31....	23	....	....	....	....	42	....	224	....	27	26	....
Total	695	437	248.0	232.5	246.5	725	2336	5739	2600	890	746	1296
Mean.	22.4	14.6	8.0	7.5	8.5	23.4	77.9	185	86.7	28.7	24.1	43.2
Max..	32	24	....	....	....	54	156	263	203	49	55	139
Min...	17	8	....	....	....	10	37	63	47	18	15	18
Acre-ft.	1380	867	492	461	489	1440	4630	11380	5160	1770	1480	2570

Total run-off for water year 1939-40=32,120 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of San Juan River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Sept. 1938	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	38	61	65	38	26	19	20	122	340	522	91	44	35
2....	86	61	57	34	28	21	19	142	409	535	83	43	34
3....	64	62	58	30	30	25	20	170	360	526	78	47	28
4....	120	58	60	35	28	24	20	187	368	575	75	38	26
5....	95	66	61	34	26	24	20	173	432	560	70	35	27
6....	86	90	51	35	31	24	19	164	463	468	64	46	74
7....	89	133	40	35	31	23	18	151	404	422	60	61	90
8....	149	164	51	35	30	23	19	167	463	392	58	42	94
9....	101	119	53	31	29	23	20	197	517	368	57	36	91
10....	86	109	48	29	27	22	22	167	590	356	51	35	80
11....	445	102	47	27	25	23	23	144	610	332	48	33	133
12....	499	95	46	35	21	23	24	154	560	310	44	29	122
13....	324	102	44	47	22	24	30	167	486	302	41	27	138
14....	236	104	46	32	22	24	36	167	422	285	40	28	167
15....	190	109	47	33	22	22	45	144	400	260	41	27	173
16....	170	122	46	35	23	23	54	122	380	230	40	26	131
17....	164	124	43	32	24	22	64	108	336	203	36	25	119
18....	135	108	40	26	24	23	78	112	396	176	35	25	112
19....	120	101	40	30	23	21	90	129	585	151	34	23	98
20....	111	95	40	28	23	20	105	151	625	140	32	22	90
21....	102	91	38	30	25	19	115	216	605	124	32	23	83
22....	97	88	36	27	25	19	120	257	605	115	33	29	75
23....	94	86	25	24	24	19	125	260	526	114	34	23	70
24....	91	80	26	20	22	20	124	213	450	108	29	21	66
25....	87	78	28	22	21	20	124	184	380	104	27	21	62
26....	82	75	27	25	22	20	135	176	356	98	28	27	70
27....	77	73	30	24	23	20	119	213	400	97	35	47	71
28....	73	70	31	26	24	19	97	264	432	94	41	56	66
29....	69	65	33	25	23	....	86	302	468	93	46	79	61
30....	64	64	35	26	22	....	79	306	494	94	46	47	53
31....	....	61	....	27	21	....	93	....	508	....	49	40	....
Total	4144	2816	1292	937	767	609	1963	5429	14370	8154	1478	1105	2539
Mean.	138	90.8	43.1	30.2	24.7	21.8	63.3	181	464	272	47.7	35.6	84.6
Max..	499	164	65	47	31	25	135	306	625	575	91	79	173
Min...	38	58	25	20	21	19	18	108	336	93	27	21	26
Acre-ft.	8220	5590	2560	1860	1520	1210	3890	10770	28510	16170	2930	2190	5040

Total run-off for water year 1938-39=82,240 acre-feet.

Discharge of West Fork San Juan River Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	49	36	20	17	19	26	85	149	448	104	44	42
2....	47	36	20	16	20	23	74	191	419	86	40	39
3....	43	34	20	17	19	22	71	303	379	77	37	50
4....	41	33	21	17	20	21	68	419	335	71	34	43
5....	39	33	19	17	21	20	75	471	307	70	32	38
6....	39	35	19	16	20	21	75	444	291	66	44	35
7....	39	31	18	15	19	21	74	466	264	58	40	33
8....	50	30	18	16	19	22	75	427	247	55	36	31
9....	42	34	18	17	19	25	80	391	230	52	31	29
10....	37	30	18	17	20	27	83	419	205	50	29	32
11....	37	30	18	17	21	25	81	431	191	50	28	34
12....	35	30	18	16	22	23	85	403	186	48	27	32
13....	35	28	17	15	21	21	111	466	180	46	26	42
14....	33	26	17	13	20	23	154	538	175	46	27	38
15....	31	26	18	15	22	27	164	507	170	41	31	37
16....	30	26	18	15	22	33	147	466	164	42	29	33
17....	30	25	18	16	21	40	137	484	149	40	27	38
18....	28	25	17	16	22	40	140	444	135	37	25	126
19....	28	24	16	16	23	48	180	363	132	35	32	200
20....	27	24	14	14	22	55	224	335	124	35	49	149
21....	26	25	15	15	23	63	244	311	130	38	51	105
22....	26	23	16	14	24	78	244	307	142	35	41	122
23....	26	23	17	14	25	96	264	319	135	36	39	109
24....	26	23	17	15	25	109	264	339	113	35	85	102
25....	29	22	17	18	25	122	247	355	102	33	86	96
26....	42	21	17	17	24	124	261	375	98	38	75	95
27....	32	21	14	17	25	105	264	407	91	62	62	83
28....	32	20	15	17	26	96	211	435	80	95	51	85
29....	33	19	16	16	28	80	183	444	88	56	50	128
30....	31	19	17	16	....	78	157	453	142	51	44	164
31....	34	....	17	18	....	89	....	462	....	50	42	....
Total	1077	812	540	495	637	1603	4522	12324	5852	1638	1294	2190
Mean.	34.7	27.1	17.4	16.0	22.0	51.7	151	398	195	52.8	41.7	73.0
Max..	50	36	21	18	28	124	264	538	448	104	86	200
Min...	26	19	14	13	19	20	68	149	80	33	25	29
Acre-ft.	2140	1610	1070	982	1260	3180	8970	24440	11610	3250	2570	4340

Total run-off for water year 1939-40=65,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Turkey Creek Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.4	8.4	7.8	7.2	6.6	8.0	26	156	106	5.2	1.0	2.6
2....	8.1	7.8	7.4	7.6	7.4	8.2	32	159	98	4.3	0.9	2.6
3....	8.4	8.8	7.6	8.0	8.8	8.2	40	122	98	3.6	0.9	1.6
4....	7.5	9.1	8.0	7.6	9.2	7.8	61	119	109	2.8	1.1	1.5
5....	8.1	8.8	8.2	7.2	9.0	7.6	57	131	101	2.8	1.0	1.4
6....	13	7.5	8.4	8.2	8.8	7.4	57	149	80	2.2	1.4	9.9
7....	24	6.6	8.4	8.2	8.6	7.0	48	128	65	1.7	3.4	11
8....	30	7.6	8.2	8.0	8.4	7.6	59	134	59	1.5	1.7	16
9....	24	8.0	8.0	7.6	8.2	8.4	67	152	53	1.4	1.5	17
10....	21	8.4	7.6	7.4	8.2	9.4	55	175	50	1.2	1.7	14
11....	19	8.8	8.0	7.0	8.4	10	43	169	47	1.3	1.4	44
12....	17	8.6	8.8	6.2	8.6	11	43	152	41	1.3	1.3	35
13....	18	8.6	9.6	6.4	8.8	12	47	125	33	1.2	1.4	36
14....	18	8.4	8.6	6.4	8.8	13	47	111	30	1.3	1.5	38
15....	18	8.4	8.4	6.4	8.4	14	38	109	26	1.1	1.4	57
16....	19	8.2	8.4	6.8	8.6	16	33	98	21	1.1	1.4	33
17....	19	8.2	8.2	7.0	8.6	19	31	80	18	0.8	1.3	26
18....	17	8.2	7.6	7.2	8.4	24	33	82	15	1.0	1.3	20
19....	15	8.4	7.8	6.8	8.2	29	37	111	12	1.0	1.2	15
20....	14	8.6	7.6	6.6	8.0	38	55	137	11	0.8	1.2	12
21....	14	8.4	7.6	7.2	7.8	49	73	143	9.1	0.6	3.6	10
22....	13	8.0	7.4	7.2	7.8	51	96	143	8.4	0.6	4.0	9.1
23....	11	6.4	7.0	7.2	8.0	50	91	137	8.4	0.6	1.4	8.4
24....	11	6.0	6.8	6.8	8.2	33	73	111	8.4	0.5	1.3	7.2
25....	9.4	6.4	7.2	6.6	8.2	27	65	89	7.2	0.4	1.3	6.8
26....	9.1	6.8	7.4	6.8	8.2	28	67	80	6.5	0.4	1.5	9.1
27....	9.4	7.2	7.2	7.2	8.0	29	84	89	5.7	1.1	3.0	8.8
28....	9.4	7.6	7.4	7.4	7.8	25	103	93	5.7	1.2	9.1	9.4
29....	8.4	7.8	7.2	7.2	....	23	122	98	6.0	1.1	15	9.4
30....	8.4	8.0	7.6	7.0	....	20	156	101	6.2	1.0	5.5	8.8
31....	8.4	....	7.6	6.8	....	21	....	103	....	0.9	3.6	....
Total	438.0	238.0	243.0	221.2	232.0	621.6	1839	3786	1144.6	46.0	77.3	480.6
Mean.	14.1	7.93	7.84	7.14	8.29	20.1	61.3	122	38.2	1.48	2.49	16.0
Max..	30	9.1	9.6	8.2	9.2	51	156	175	109	5.2	15	57
Min...	7.5	6.0	6.8	6.2	6.6	7.0	26	80	5.7	0.4	0.9	1.4
Acre-ft.	869	472	482	439	460	1230	3650	7510	2270	91	153	953

Total run-off for water year 1938-39=18,580 acre-feet.

Discharge of Turkey Creek Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.5	7.8	9.9	7.5	8.5	10	24	55	89	4.3	0.7	2.4
2....	7 5	9.9	9.1	7.5	8.5	10	24	67	80	1.8	.7	2.8
3....	7.8	9.9	9.1	7.5	8.5	10	22	91	69	1.1	.7	4.0
4....	7.2	9.9	8.8	7.5	8.5	10	19	128	61	.9	.7	3.0
5....	7.2	8.4	8.8	7.5	8.5	10	21	128	59	.9	.7	3.0
6....	7.2	6.5	8.4	7.5	8.5	10	21	116	53	.9	1.3	2.8
7....	7.8	6.0	8.1	7.5	8.5	10	19	111	48	.7	3.2	2.8
8....	12	5.7	9.4	7.5	8.5	10	21	96	43	.6	2.2	2.6
9....	10	6.2	8.4	7.5	8.5	11	21	89	33	.4	2.0	2.6
10....	8.4	5.5	8.1	7.5	8.5	12	21	93	27	.4	1.8	2.6
11....	8.4	5.2	7.8	7.5	8.5	12	22	89	25	.4	1.8	2.2
12....	9.1	5.2	7.8	7.5	8.5	11	26	82	23	.4	1.8	1.8
13....	8.1	5.0	7.4	7.5	8.5	10	35	89	22	.4	1.7	1.8
14....	5.5	5.2	6.5	7.5	8.5	11	50	98	17	.4	1.8	1.7
15....	5.0	6.5	6.2	7.5	8.5	12	59	89	16	.4	2.4	1.7
16....	6.8	6.2	6.3	7.5	8.5	12	51	84	14	.4	2.8	1.4
17....	6.5	6.2	7.8	7.5	8.5	13	45	91	11	.4	2.8	1.4
18....	4.8	6.0	7.2	7.5	8.5	14	50	80	11	.6	2.6	7.8
19....	5.0	6.0	5.7	7.5	8.5	17	78	59	10	.6	2.8	33
20....	4.3	6.0	5.2	7.5	8.5	20	103	50	9.9	.6	4.0	14
21....	4.0	6.2	5.0	7.5	8.5	23	91	45	9.9	.5	3.8	8.4
22....	4.0	6.2	5.5	7.5	8.5	28	98	53	11	.5	3.0	18
23....	3.8	6.0	5.6	7.5	8.5	34	91	71	9.4	.5	4.0	13
24....	3.6	6.0	5.6	7.5	8.5	37	82	69	7.2	.4	9.4	9.4
25....	4.0	5.8	5.8	7.5	8.5	43	73	71	6.0	.4	6.5	7.5
26....	6.2	6.2	5.6	7.5	8.5	43	73	73	6.0	.5	5.7	7.5
27....	5.5	6.5	5.8	7.5	8.5	35	73	80	5.2	.9	3.8	7.2
28....	6.2	6.2	6.2	7.5	8.5	31	65	82	4.0	2.6	3.2	11
29....	6.0	6.5	6.4	7.5	8.5	26	63	82	4.5	2.2	2.8	30
30....	6.2	7.5	6.8	7.5	....	23	53	84	8.1	1.5	2.6	44
31....	6.0	....	6.8	7.5	....	24	....	89	....	1.0	2.4	....
Total	201.6	196.4	221.1	232.5	246.5	582	1494	2584	792.2	27.6	85.7	251.4
Mean.	6.50	6.55	7.13	7.5	8.5	18.8	49.8	83.4	26.4	.89	2.76	8.38
Max..	12	9.9	9.9	....	....	43	103	128	89	4.3	9.4	44
Min...	3.6	5.0	5.0	....	....	10	19	45	4.0	.4	.7	1.4
Acre-ft.	400	390	439	461	489	1150	2960	5130	1570	55	170	499

Total run-off for water year 1939-40=13,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Blanco River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	21	24	12	13	9.2	10	91	274	220	37	36	13
2....	21	23	13	14	11	10	116	280	217	35	31	11
3....	24	24	12	17	12	10	126	277	232	34	31	9.6
4....	28	23	12	14	13	10	116	298	247	32	34	7.2
5....	25	25	12	15	13	10	121	314	247	31	27	9.0
6....	32	20	12	17	12	9.2	110	298	194	31	28	14
7....	91	23	12	17	12	10	102	262	160	29	32	24
8....	123	19	13	16	11	10	121	277	155	25	30	74
9....	82	25	12	16	11	10	150	304	147	25	24	59
10....	70	22	12	15	10	10	114	320	150	24	21	47
11....	55	20	12	14	10	9.4	90	310	142	24	20	152
12....	48	20	11	14	11	11	96	280	134	24	17	98
13....	51	18	9.8	14	11	13	104	262	125	21	16	101
14....	47	21	9.4	15	11	17	112	256	116	18	16	165
15....	52	20	12	15	12	21	93	241	98	18	12	127
16....	62	19	13	15	11	28	79	209	86	18	11	77
17....	51	16	11	16	11	40	71	184	74	15	11	56
18....	43	17	8.4	16	11	58	66	229	59	12	11	44
19....	38	17	8.8	15	11	80	79	286	50	13	9.0	45
20....	34	16	12	15	11	114	98	296	45	13	8.4	35
21....	33	16	8.8	14	11	93	174	283	44	15	14	30
22....	30	14	8.0	14	11	85	209	293	47	14	12	26
23....	29	12	7.4	14	11	116	198	273	57	11	9.6	22
24....	26	12	7.0	13	11	135	148	241	52	11	8.4	19
25....	25	12	8.4	13	11	110	123	197	47	12	13	23
26....	25	12	10	14	11	104	143	170	42	11	14	44
27....	24	12	9.4	14	11	91	209	183	41	21	24	45
28....	23	12	11	14	11	83	262	186	39	41	34	41
29....	22	13	11	13	....	59	262	192	40	65	33	40
30....	22	13	12	11	....	54	259	208	39	79	17	32
31....	22	....	12	10	....	63	....	208	....	46	14	....
Total	1279	540	334.4	447	312.2	1483.6	4042	7891	3346	805	618.4	1489.8
Mean.	41.3	18.0	10.8	14.4	11.2	47.9	135	255	112	26.0	19.9	49.7
Max..	123	25	13	17	13	135	262	320	247	79	36	165
Min...	21	12	7.0	10	9.2	9.2	66	170	39	11	8.4	7.2
Acre-ft.	2540	1070	663	887	619	2940	8020	15650	6640	1600	1230	2950

Total run-off for water year 1938-39=44,810 acre-feet.

Discharge of Rio Blanco Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	25	23	11	9.4	11	22	72	108	176	56	18	18
2....	22	22	11	9.0	12	21	59	139	155	48	15	20
3....	19	21	11	9.4	10	21	58	178	186	41	15	21
4....	18	19	12	9.6	11	19	58	220	144	38	14	20
5....	15	18	11	9.4	10	19	59	220	142	38	13	15
6....	13	18	11	8.4	9.4	21	56	211	153	33	16	13
7....	14	20	11	8.6	9.4	23	54	214	153	32	27	16
8....	21	18	11	9.2	9.2	25	56	194	150	30	27	18
9....	22	18	10	9.6	9.0	29	53	203	139	25	17	13
10....	23	22	11	9.6	9.0	30	52	217	130	23	16	10
11....	21	23	11	9.4	9.4	27	56	217	122	23	17	11
12....	18	24	10	9.0	11	26	76	208	115	22	14	18
13....	17	22	10	8.0	9.4	29	105	241	117	31	13	33
14....	16	20	9.6	7.4	10	32	137	254	122	40	13	24
15....	16	18	10	8.0	11	32	130	254	117	34	13	21
16....	14	17	9.6	8.6	10	49	101	266	108	37	13	18
17....	14	16	9.6	8.8	9.4	57	91	310	103	27	12	27
18....	15	16	9.6	8.4	10	54	99	362	100	30	9.8	79
19....	14	14	9.0	8.8	11	71	139	257	91	27	9.2	100
20....	14	13	9.0	8.4	10	82	168	226	88	24	40	60
21....	13	15	9.0	9.2	11	94	176	214	79	24	54	46
22....	12	14	8.4	8.4	11	123	189	229	72	29	54	48
23....	13	13	8.4	8.0	12	132	157	241	70	24	40	39
24....	13	12	9.0	8.8	13	142	152	244	70	21	128	38
25....	18	12	9.0	9.4	16	144	147	254	68	20	88	39
26....	27	11	9.0	9.4	16	127	142	244	58	21	62	33
27....	23	12	7.2	9.4	16	103	137	232	51	28	46	27
28....	21	11	8.0	9.0	17	82	119	229	48	27	34	33
29....	20	11	8.6	9.4	21	66	108	223	62	27	29	50
30....	18	11	9.0	9.8	....	71	99	206	79	22	25	74
31....	19	....	9.4	10	....	76	....	186	....	19	22	....
Total	548	504	302.4	277.8	334.2	1849	3105	7001	3268	921	914.0	982
Mean.	17.7	16.8	9.75	8.96	11.5	59.6	104	226	109	29.7	29.5	32.7
Max..	27	24	12	10	21	144	189	362	186	56	128	100
Min...	12	11	7.2	7.4	9.0	19	52	108	48	19	9.2	10
Acre-ft.	1090	1000	600	551	663	3670	6160	13890	6480	1830	1810	1950

Total run-off for water year 1939-40=39,690 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rito Blanco River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.2	1.0	1.9	1.7	0.8	1.6	25	63	27	2.1	0.9	0.3
2....	2.2	1.4	1.9	1.7	1.0	1.7	31	64	27	1.9	0.6	0.2
3....	2.4	2.1	1.8	1.8	1.0	1.7	35	58	26	1.2	0.5	0.2
4....	2.2	2.4	1.7	1.6	1.1	1.8	36	58	27	1.1	0.5	0.1
5....	2.5	2.2	1.7	1.7	1.1	1.8	36	58	28	1.0	0.5	0.2
6....	4.0	1.4	1.7	1.7	1.1	1.8	37	60	25	0.7	0.5	0.2
7....	9.8	1.5	1.7	1.7	1.1	1.8	32	48	23	0.7	0.7	0.5
8....	14	2.2	1.7	1.7	1.0	1.9	38	46	21	0.8	0.7	2.8
9....	11	3.2	1.7	1.6	1.0	1.9	45	46	20	0.8	0.4	1.9
10....	10	3.0	1.7	1.6	0.9	1.9	34	46	18	0.8	0.1	0.9
11....	9.0	2.5	1.6	1.6	1.0	1.8	33	44	18	0.7	0.1	8.2
12....	6.6	2.2	1.6	1.5	1.0	2.2	35	39	16	0.4	0.1	4.8
13....	7.8	2.7	1.5	1.5	1.0	2.4	37	34	15	0.4	0	2.8
14....	7.4	2.9	1.5	1.5	1.0	2.7	38	30	13	0.4	0	6.6
15....	6.2	3.0	1.6	1.6	1.1	3.0	31	26	12	0.6	0.1	12
16....	7.0	2.7	1.7	1.5	1.1	4.0	25	25	8.6	0.7	0	5.8
17....	5.4	2.5	1.6	1.5	1.2	4.4	23	21	5.8	0.4	0	5.4
18....	4.5	2.5	1.5	1.4	1.2	5.8	22	22	4.5	0.4	0	2.8
19....	4.2	2.6	1.6	1.4	1.3	8.0	26	27	3.4	0.4	0.1	2.2
20....	4.0	2.6	1.7	1.4	1.3	46	40	33	2.4	0.3	0	2.2
21....	3.4	2.6	1.5	1.4	1.3	25	56	35	1.7	0.3	0.1	1.7
22....	1.5	2.4	1.3	1.4	1.4	25	66	40	1.0	0.3	0.3	1.5
23....	1.5	2.0	1.2	1.4	1.4	25	54	39	1.4	0.1	0.1	1.1
24....	1.5	1.8	1.2	1.4	1.4	26	44	37	1.7	0.1	0	1.0
25....	1.4	1.7	1.3	1.4	1.5	24	39	32	2.1	0	0	1.1
26....	1.4	1.7	1.4	1.4	1.5	25	40	26	2.5	0.1	0	2.1
27....	1.4	1.7	1.4	1.3	1.5	25	48	25	4.0	0.2	0.3	6.6
28....	1.2	1.7	1.5	1.3	1.6	21	61	25	4.0	1.1	1.8	2.2
29....	1.1	1.8	1.5	1.2	....	18	68	25	2.5	2.8	1.2	2.2
30....	1.0	1.8	1.5	1.1	....	18	61	25	2.5	1.7	0.3	1.8
31....	1.0	....	1.6	0.9	....	21	....	26	....	0.9	0.2	....
Total	138.8	65.8	48.8	45.9	32.9	351.2	1196	1183	364.1	23.4	10.1	81.4
Mean.	4.48	2.19	1.57	1.48	1.18	11.3	39.9	38.2	12.1	0.75	0.33	2.71
Max..	14	3.2	1.9	1.8	1.6	46	68	64	28	2.8	1.8	12
Min...	1.0	1.0	1.2	0.9	0.8	1.6	22	21	1.0	0	0	0.1
Acre-ft.	275	131	97	91	65	697	2370	2350	722	46	20	161

Total run-off for water year 1938-39=7,020 acre-feet.

Discharge of Rito Blanco Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.5	0.4	0.6	0.7	1.2	1.0	15	26	38	4.0	0.6	0.4
2....	1.4	.2	.8	.6	1.3	.8	14	36	37	3.4	.6	.4
3....	1.2	.2	.8	.7	1.2	.8	12	56	34	2.4	.5	.5
4....	1.1	.2	.9	.7	1.3	.7	12	70	31	1.6	.3	5
5....	1.1	.2	1.1	.7	1.2	.7	13	72	26	1.7	.2	.5
6....	1.1	.2	1.1	.6	1.1	.9	12	66	24	1.8	.5	.4
7....	.7	.2	1.1	.6	1.2	1.0	12	64	21	1.4	1.0	.4
8....	.5	.1	1.1	.7	1.2	1.0	14	54	18	1.2	.9	.3
9....	.6	.3	1.4	.8	1.4	1.4	14	49	17	1.4	.5	.3
10....	.5	.3	1.5	.8	1.2	1.6	15	49	15	1.0	.3	.3
11....	.4	.2	1.1	.8	1.4	1.5	15	43	11	1.0	.4	.3
12....	.4	.3	1.1	.7	1.4	1.7	20	36	9.5	.9	.3	.3
13....	.4	.3	1.1	.7	1.4	1.8	30	37	9.0	.8	.2	2.1
14....	.4	.2	1.0	.6	1.5	2.4	43	44	8.6	1.0	.2	.6
15....	.4	.3	1.1	.7	1.5	2.7	44	54	8.6	1.2	.2	.6
16....	.4	.4	.7	.8	1.4	4.3	33	60	8.2	1.1	.2	.5
17....	.4	.4	.8	.9	1.2	6.1	27	82	7.4	1.0	.1	.5
18....	.4	1.1	.7	.8	1.2	7.0	26	118	6.1	.9	0	4.0
19....	.3	1.0	.7	.9	1.3	8.6	34	92	5.3	.7	0	7.0
20....	.3	1.4	.7	.8	1.2	10	54	70	4.3	.6	.6	3.4
21....	.3	1.5	.6	.9	1.1	13	58	54	4.0	1.2	2.1	2.1
22....	.3	1.5	.5	.8	1.2	16	58	54	4.0	7.4	1.2	2.7
23....	.3	1.6	.5	.8	1.2	20	68	62	3.4	5.7	.9	2.1
24....	.3	1.6	.5	.9	1.0	25	58	56	2.7	2.4	1.6	1.7
25....	.3	1.1	.5	.9	.9	28	49	51	2.7	1.4	1.6	2.1
26....	.8	1.4	.5	1.0	.9	26	51	46	2.4	.9	1.2	1.6
27....	.7	.9	.4	.9	.8	20	52	46	2.1	1.7	1.5	1.5
28....	.4	1.1	.3	1.0	.9	17	38	46	1.4	1.5	.7	1.5
29....	.4	.8	.4	1.0	.9	14	33	41	1.7	1.5	.6	2.1
30....	.4	.8	.5	1.1	....	14	26	40	7.4	1.2	.3	1.7
31....	.4	....	.6	1.1	....	15	....	40	....	.7	.3	....
Total	18.1	20.2	24.7	25.0	34.7	264	950	1714	370.8	54.7	19.5	42.4
Mean.	.58	.67	.80	.81	1.20	8.52	31.7	55.3	12.4	1.76	.63	1.41
Max..	1.5	1.6	1.5	1.1	1.5	28	68	118	38	7.4	2.1	7.0
Min...	.3	.1	.3	.6	.8	.7	12	26	1.4	.6	0	.3
Acre-ft.	36	40	49	50	69	524	1880	3400	735	108	39	84

Total run-off for water year 1939-40=7,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River at Banded Peak Ranch Near Chromo, Colo., for Year Ending Sept. 30, 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	52	47	35	29	18	27	107	336	320	62	45	29
2....	49	43	32	31	22	28	128	336	326	56	41	27
3....	53	44	30	33	30	29	148	348	332	56	44	25
4....	47	43	34	30	30	29	141	371	371	53	40	24
5....	48	45	34	27	29	27	143	394	368	49	37	29
6....	53	37	34	30	28	26	141	391	278	48	38	37
7....	80	33	35	32	28	27	131	352	236	44	42	31
8....	101	34	35	31	27	28	154	355	239	45	40	43
9....	90	35	35	30	26	28	164	381	221	44	34	47
10....	80	34	35	29	25	28	141	411	224	44	33	32
11....	72	30	35	27	26	26	126	415	221	42	33	138
12....	66	29	35	26	27	29	131	381	210	41	31	105
13....	64	27	28	26	28	32	136	355	201	40	33	95
14....	63	31	23	27	28	35	138	352	182	40	32	120
15....	64	29	27	27	28	39	126	332	164	40	32	135
16....	68	31	32	28	27	44	112	313	143	37	30	90
17....	66	30	28	29	27	54	101	263	133	35	29	72
18....	60	33	24	29	27	66	99	310	116	35	28	62
19....	58	34	31	28	27	80	116	384	101	33	27	54
20....	55	32	29	28	26	76	164	415	92	33	28	47
21....	54	33	27	29	26	74	187	401	86	31	34	43
22....	53	28	23	29	26	78	227	415	84	33	30	42
23....	52	27	20	28	26	103	227	394	84	33	28	40
24....	49	27	18	27	27	114	190	352	78	31	26	37
25....	49	27	22	27	27	107	172	284	76	31	32	38
26....	45	28	25	28	27	112	185	245	69	34	35	49
27....	48	29	23	29	28	114	218	266	68	48	32	50
28....	47	31	26	29	27	99	281	288	63	57	37	41
29....	43	32	27	27	....	84	304	320	62	62	38	38
30....	44	34	27	22	....	72	320	323	62	58	32	36
31....	44	....	27	19	....	82	....	313	....	62	32	....
Total	1817	997	896	871	748	1797	4958	10796	5210	1357	1053	1656
Mean.	58.6	33.2	28.9	28.1	26.7	58.0	165	348	174	43.8	34.0	55.2
Max..	101	47	35	33	30	114	320	415	371	62	45	138
Min...	43	27	18	19	18	26	99	245	62	31	26	24
Acre-ft.	3600	1980	1780	1730	1480	3560	9830	21410	10330	2690	2090	3280

Total run-off for water year 1938-39=63,760 acre-feet.

Discharge of Navajo River at Banded Peak Ranch Near Chromo, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	35	27	19	20	22	25	92	126	391	68	38	38
2....	33	27	20	19	22	24	84	156	360	61	36	38
3....	32	27	20	18	21	23	76	221	335	58	34	39
4....	32	27	21	18	20	22	76	269	304	55	32	37
5....	31	27	21	18	20	23	80	291	282	53	32	32
6....	30	28	22	18	18	24	78	304	264	50	36	34
7....	30	27	22	18	19	24	76	313	246	52	40	36
8....	34	27	22	19	19	25	78	297	237	48	42	34
9....	33	29	22	20	18	26	80	294	204	45	35	30
10....	33	26	22	21	18	26	86	329	185	44	37	30
11....	32	25	21	21	19	25	86	336	172	43	36	29
12....	32	26	20	20	21	26	99	332	161	43	32	45
13....	32	26	20	19	20	30	136	361	151	46	31	50
14....	31	26	21	16	21	33	167	377	161	45	30	39
15....	32	25	20	17	22	36	159	394	159	42	32	37
16....	31	25	19	18	21	41	136	408	144	46	37	34
17....	31	25	19	20	20	42	121	419	137	43	37	38
18....	31	24	18	19	22	43	121	380	127	42	31	70
19....	31	25	18	20	23	48	148	294	122	39	34	80
20....	30	24	19	18	22	58	193	246	118	38	80	53
21....	30	25	18	20	21	76	212	228	110	37	64	50
22....	30	25	16	19	24	84	227	240	108	49	61	56
23....	29	25	16	18	23	99	236	243	99	46	61	50
24....	29	24	14	20	22	107	224	264	95	40	137	49
25....	30	23	14	19	22	126	185	258	90	38	88	50
26....	32	23	14	20	23	124	190	279	90	39	66	46
27....	27	21	13	19	22	105	193	324	82	40	60	44
28....	28	20	12	20	23	90	159	349	79	46	52	45
29....	27	21	14	22	24	76	141	363	76	46	49	52
30....	27	21	16	23	....	78	126	377	80	42	44	76
31....	27	....	18	23	....	84	....	388	....	38	39	....
Total	952	751	571	600	612	1673	4065	9460	5169	1422	1463	1341
Mean.	30.7	25.0	18.4	19.4	21.1	54.0	136	305	172	45.9	47.2	44.7
Max..	35	29	22	23	24	126	236	419	391	68	137	80
Min...	27	20	12	16	18	22	76	126	76	37	30	29
Acre-ft.	1890	1490	1130	1190	1210	3320	8060	18760	10250	2820	2900	2660

Total run-off for water year 1939-40=55,680 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River Near Chromo, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	53	50	....	....	....	....	....	....	....	....	....	....
2....	48	50	....	....	....	....	....	....	....	....	....	....
3....	50	45	....	....	....	....	....	....	....	....	....	....
4....	53	46	....	....	....	....	....	....	....	....	....	....
5....	53	51	....	....	....	....	....	....	....	....	....	....
6....	57	47	....	....	....	....	....	....	....	....	....	....
7....	85	46	....	....	....	....	....	....	....	....	....	....
8....	137	45	....	....	....	....	....	....	....	....	....	....
9....	101	41	....	....	....	....	....	....	....	....	....	....
10....	90	40	....	....	....	....	....	....	....	....	....	....
11....	85	41	....	....	....	....	....	....	....	....	....	....
12....	81	41	....	....	....	....	....	....	....	....	....	....
13....	79	40	....	....	....	....	....	....	....	....	....	....
14....	77	....	....	....	....	....	....	....	....	....	....	....
15....	81	....	....	....	....	....	....	....	....	....	....	....
16....	86	....	....	....	....	....	....	....	....	....	....	....
17....	83	....	....	....	....	....	....	....	....	....	....	....
18....	74	....	....	....	....	....	....	....	....	....	....	....
19....	69	....	....	....	....	....	....	....	....	....	....	....
20....	67	....	....	....	....	....	....	....	....	....	....	....
21....	64	....	....	....	....	....	....	....	....	....	....	....
22....	63	....	....	....	....	....	....	....	....	....	....	....
23....	60	....	....	....	....	....	....	....	....	....	....	....
24....	57	....	....	....	....	....	....	....	....	....	....	....
25....	54	....	....	....	....	....	....	....	....	....	....	....
26....	53	....	....	....	....	....	....	....	....	....	....	....
27....	50	....	....	....	....	....	....	....	....	....	....	....
28....	50	....	....	....	....	....	....	....	....	....	....	....
29....	50	....	....	....	....	....	....	....	....	....	....	....
30....	50	Nov. 1	....	....	....	....	....	....	....	....	....	....
31....	48	to 13	....	....	....	....	....	....	....	....	....	....
Total	2108	583	....	....	....	....	....	....	....	....	....	....
Mean.	68.0	44.8	....	....	....	....	....	....	....	....	....	....
Max..	137	51	....	....	....	....	....	....	....	....	....	....
Min...	48	40	....	....	....	....	....	....	....	....	....	....
Acre-ft.	4180	1160	....	....	....	....	....	....	....	....	....	....

Run-off for period=5,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River at Edith, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	51	50	50	35	22	36	270	472	350	64	57	29
2....	50	55	45	39	26	34	300	493	341	61	46	28
3....	49	49	42	45	35	36	353	454	356	56	45	26
4....	51	47	46	40	40	38	359	500	386	55	49	26
5....	54	55	45	36	38	33	320	493	406	54	42	30
6....	61	45	45	45	38	33	330	500	341	48	42	41
7....	86	38	43	44	37	35	282	423	258	43	43	34
8....	176	39	45	42	36	36	308	423	260	42	44	41
9....	116	43	42	39	34	37	368	451	246	41	40	57
10....	107	44	45	38	32	37	338	486	241	37	37	69
11....	102	44	46	35	34	36	272	490	246	37	35	180
12....	91	45	46	32	35	39	280	458	227	36	33	116
13....	89	36	36	33	37	44	288	412	223	35	32	107
14....	86	38	30	33	38	50	298	420	207	35	34	134
15....	86	40	37	34	37	58	260	383	186	38	31	180
16....	91	40	48	35	36	68	229	356	166	38	32	118
17....	91	41	40	36	37	88	203	308	148	33	30	91
18....	82	38	35	36	37	110	192	312	136	30	28	78
19....	75	39	47	36	36	125	218	412	121	32	27	68
20....	69	40	44	35	35	145	255	465	110	32	27	62
21....	68	40	38	38	34	172	325	437	99	30	29	55
22....	65	39	35	37	34	290	389	458	94	29	30	51
23....	62	34	29	35	35	462	402	437	96	29	27	48
24....	58	34	26	34	36	392	325	386	89	29	27	46
25....	56	35	32	34	37	350	292	332	86	29	29	44
26....	54	37	35	35	37	318	300	278	80	29	35	50
27....	51	38	30	36	36	298	335	298	75	42	32	89
28....	51	40	37	37	35	216	426	302	71	54	36	57
29....	50	43	36	36	....	210	482	330	66	86	39	51
30....	50	45	35	34	....	186	451	353	65	64	31	48
31....	50	....	36	30	....	207	....	328	....	76	30	....
Total	2278	1251	1226	1134	984	4219	9450	12650	5776	1344	1099	2054
Mean.	73.5	41.7	39.5	36.6	35.1	136	315	408	193	43.4	35.5	68.5
Max..	176	55	50	45	40	462	482	500	406	86	57	180
Min...	49	34	26	30	22	33	192	278	65	29	27	26
Acre-ft.	4520	2480	2430	2250	1950	8370	18740	25090	11460	2670	2180	4070

Total run-off for water year 1938-39=86,210 acre-feet.

Discharge of Navajo River at Edith, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	44	32	24	23	32	43	155	186	430	75	40	46
2....	42	32	25	23	31	39	157	217	402	69	39	44
3....	40	31	25	24	29	37	130	281	360	64	35	48
4....	39	32	26	24	31	35	130	357	333	63	31	45
5....	39	33	26	24	30	40	134	388	310	62	30	42
6....	38	34	26	24	29	39	125	392	281	64	35	40
7....	38	33	26	23	31	38	124	392	262	57	36	42
8....	43	30	25	25	32	42	124	364	247	55	44	35
9....	45	37	26	26	31	45	125	342	233	50	35	31
10....	42	36	26	27	31	47	127	378	198	48	31	29
11....	40	33	25	27	32	44	128	381	192	47	37	30
12....	39	34	26	26	33	42	139	374	178	44	31	30
13....	36	33	24	25	31	48	174	423	168	47	30	60
14....	30	30	23	24	33	54	238	454	172	48	27	35
15....	29	29	23	25	35	60	286	468	174	45	27	35
16....	28	29	24	26	34	70	228	482	170	50	29	31
17....	27	28	26	27	32	88	202	520	155	46	34	33
18....	26	29	25	26	35	86	192	528	152	49	28	55
19....	27	29	23	27	37	96	224	398	139	46	27	87
20....	28	29	23	26	35	105	292	336	127	41	62	56
21....	29	29	21	27	33	141	333	302	120	40	88	46
22....	29	28	20	26	38	162	333	302	116	40	71	56
23....	29	27	20	26	36	188	354	316	111	57	72	54
24....	30	28	21	28	35	206	345	319	106	44	137	49
25....	30	28	21	28	35	226	286	313	100	39	109	54
26....	38	28	23	28	36	228	281	313	95	39	76	55
27....	33	29	21	28	35	200	286	357	87	40	68	54
28....	34	27	19	27	36	186	240	402	82	43	58	56
29....	33	26	20	28	40	141	221	402	82	46	57	63
30....	30	26	22	30	....	130	196	409	92	46	53	88
31....	31	....	23	31	....	150	....	426	....	40	48	....
Total	1066	909	728	809	968	3056	6309	11522	5674	1544	1525	1429
Mean.	34.4	30.3	23.5	26.1	33.4	98.6	210	372	189	49.8	49.2	47.6
Max..	45	37	26	31	40	228	354	528	430	75	137	88
Min...	26	26	19	23	29	35	124	186	82	39	27	29
Acre-ft.	2110	1800	1440	1600	1920	6060	12510	22850	11250	3060	3020	2830

Total run-off for water year 1939-40=70,450 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Navajo River at Chromo, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.1	2.6	3.0	2.3	1.5	1.9	44	59	8.2	0.1	0.5	0.1
2....	1.0	4.4	2.8	2.4	1.6	2.0	47	59	6.9	0.1	0.4	0.1
3....	1.3	2.6	2.6	2.5	1.7	2.0	49	54	6.5	0.1	0.3	0.2
4....	1.5	2.6	2.5	2.3	1.7	2.0	48	53	7.8	0.1	0.2	0.2
5....	1.6	2.1	2.5	2.2	1.8	2.0	48	49	11	0.1	0.2	0.2
6....	1.8	2.5	2.5	2.4	1.8	1.9	44	53	12	0.1	0.1	0.2
7....	4.1	3.3	2.5	2.6	1.8	2.0	47	51	10	0	0.1	0.2
8....	9.3	3.9	2.6	2.7	1.7	2.0	49	49	6.5	0.1	0.1	0.2
9....	4.8	4.2	2.6	2.5	1.7	2.0	59	47	2.6	0.1	0.1	0.3
10....	4.1	3.8	2.5	2.4	1.6	2.0	54	44	1.7	0.1	0.1	0.7
11....	4.1	3.7	2.4	2.4	1.6	1.9	45	41	2.1	0.1	0.1	2.6
12....	3.9	3.6	2.3	2.4	1.6	2.4	45	39	2.3	0.1	0.1	2.1
13....	3.6	4.4	2.2	2.4	1.6	3.0	47	36	1.5	0.1	0.1	1.4
14....	3.1	5.1	2.1	2.4	1.6	3.8	47	35	0.8	0.1	0.1	1.8
15....	2.6	5.0	2.5	2.4	1.7	6.2	41	27	0.6	0.1	0.1	5.2
16....	2.3	4.6	2.8	2.5	1.7	9.0	35	22	0.6	0.1	0.1	5.2
17.. ..	2.3	4.1	2.5	2.4	1.7	12	30	15	0.7	0.1	0.2	4.4
18....	1.8	4.2	2.0	2.3	1.7	21	25	12	0.4	0.1	0.2	3.4
19....	2.3	4.3	2.3	2.2	1.7	29	27	9.3	0.2	0.1	0.5	2.8
20....	2.6	4.3	2.2	2.1	1.7	44	48	9.3	0.2	0.1	0.5	2.1
21....	3.1	4.2	2.0	2.1	1.7	35	56	9.3	0.2	0.1	0.4	1.6
22....	2.8	4.1	1.9	2.1	1.6	49	61	7.8	0.1	0.1	0.2	1.6
23....	3.1	3.6	1.7	2.1	1.8	78	64	7.3	0.1	0.1	0.1	1.4
24....	2.8	3.2	1.6	2.1	1.8	61	54	7.8	0.1	0.1	0.1	1.4
25....	3.1	2.8	1.8	2.1	1.8	59	51	7.8	0.1	0.1	0.1	1.4
26....	3.4	2.7	1.8	2.1	1.8	51	50	6.9	0.1	0.1	0.1	3.9
27....	3.1	2.7	1.9	2.0	1.8	50	51	6.9	0.1	0.1	0.1	5.2
28....	2.8	2.7	2.0	1.9	1.9	37	54	7.3	0.1	0.2	0.1	1.8
29....	2.3	2.8	2.1	1.8	....	33	60	7.8	0.1	0.8	0.1	1.4
30....	2.1	2.9	2.2	1.7	....	26	57	8.2	0.1	0.7	0.1	1.4
31....	2.3	....	2.3	1.6	....	27	....	8.6	....	0.5	0.1	....
Total	90.1	107.0	70.7	69.4	47.7	658.1	1437	849.3	83.7	4.8	5.6	54.5
Mean.	2.90	3.57	2.28	2.24	1.54	21.2	47.9	27.4	2.79	0.15	0.18	1.82
Max..	9.3	5.1	3.0	2.7	1.9	78	64	59	12	0.8	0.5	5.2
Min...	1.0	2.1	1.6	1.6	1.5	1.9	25	6.9	0.1	0.0	0.1	0.1
Acre-ft.	179	212	140	138	95	1310	2850	1680	166	9.5	11	108

Total run-off for water year 1938-39=6,900 acre-feet.

Discharge of Little Navajo River at Chromo, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.4	1.4	1.0	1.4	1.5	1.9	13	27	4.3	.1	.1	.1
2....	1.4	1.1	1.2	1.5	1.5	1.8	13	30	5.8	.1	.1	.1
3....	1.3	1.3	1.3	1.5	1.6	1.8	11	36	4.5	.1	.1	.1
4....	1.3	1.4	1.6	1.6	1.6	1.6	11	39	4.5	.1	.1	.1
5....	1.6	1.4	1.6	1.6	1.6	1.8	11	39	3.5	.1	.1	.1
6....	1.6	1.4	1.5	1.6	1.6	1.8	11	36	2.5	.1	.1	.1
7....	1.7	1.4	1.4	1.6	1.5	2.4	9.8	34	2.4	.1	.1	.1
8....	2.3	1.5	1.4	1.6	1.5	2.1	9.8	27	2.2	.1	.1	.1
9....	2.3	2.3	1.6	1.6	1.4	3.1	11	23	1.7	.1	.1	.1
10....	1.8	2.1	1.4	1.4	1.4	3.1	12	22	.9	.1	.1	.1
11....	1.7	2.1	1.4	1.5	1.3	2.8	12	18	.4	.1	.1	.1
12....	1.7	2.6	1.3	1.5	1.3	2.8	14	14	.3	.1	.1	.1
13....	1.6	2.6	1.4	1.5	1.2	3.5	23	18	.4	.1	.1	.1
14....	1.6	2.1	1.4	1.4	1.2	3.5	39	16	.6	.1	.1	.1
15....	1.7	2.8	1.4	1.3	1.3	5.3	39	16	.3	.1	.1	.1
16....	1.6	3.4	1.7	1.3	1.2	12	34	15	.3	.1	.1	.1
17....	1.6	2.6	1.9	1.2	1.1	14	30	22	.2	.1	.1	.1
18....	1.6	1.6	1.8	1.3	1.2	14	28	28	.2	.1	.1	.1
19....	1.6	2.3	1.7	1.3	1.2	16	35	23	.2	.1	.1	.1
20....	1.6	2.8	1.4	1.4	1.0	16	41	21	.1	.1	.1	.1
21....	1.6	2.6	1.6	1.3	1.0	16	42	18	.1	.1	.1	.1
22....	1.6	2.4	1.5	1.3	1.1	21	42	19	.1	.1	.1	.1
23....	1.7	2.4	1.4	1.4	1.0	22	40	21	.1	.1	.1	.1
24....	1.6	2.6	1.4	1.4	1.2	25	38	16	.1	.1	.1	.1
25....	1.7	2.2	1.3	1.5	1.2	26	36	12	.1	.1	.1	.1
26....	2.8	1.5	1.3	1.4	1.2	24	36	12	.1	.1	.1	.1
27....	2.3	1.5	1.2	1.3	1.2	21	37	12	.1	.1	.1	.1
28....	2.1	1.4	1.2	1.2	1.5	17	33	11	.1	.1	.1	.2
29....	2.1	1.2	1.1	1.3	1.9	12	30	9.4	.1	.1	.1	.2
30....	1.7	1.3	1.2	1.3	....	11	26	9.0	.1	.1	.1	.8
31....	1.7	....	1.3	1.4	....	12	....	7.7	....	.1	.1	....
Total	53.9	59.3	43.9	43.9	38.5	318.3	767.6	651.1	36.5	3.1	3.1	3.9
Mean.	1.74	1.98	1.42	1.42	1.33	10.3	25.6	21.0	1.22	.10	.10	.13
Max..	2.8	3.4	1.9	1.6	1.9	26	42	39	5.8	.1	.1	.8
Min...	1.3	1.1	1.0	1.2	1.0	1.6	9.8	7.7	.1	.1	.1	.1
Acre-ft.	107	118	87	87	76	631	1520	1290	72	6.1	6.1	7.7

Total run-off for water year 1939-40=4,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piedra River at Bridge Ranger Station Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	45	46	....	....	....	....	68	226	345	35	19	27
2....	47	44	....	....	....	....	76	292	330	31	17	23
3....	50	46	....	....	....	....	90	256	348	28	17	18
4....	41	47	....	....	....	....	100	253	414	28	16	15
5....	48	46	....	....	....	....	120	306	402	27	16	19
6....	75	42	....	....	....	....	105	330	320	26	27	66
7....	203	31	....	*20	....	....	94	247	260	23	31	66
8....	260	36	....	....	....	....	120	296	244	22	21	86
9....	152	42	....	....	....	....	145	352	229	21	18	70
10....	124	29	....	....	....	....	134	406	220	20	18	68
11....	106	34	....	....	....	....	120	394	232	18	16	158
12....	97	32	....	....	....	....	102	356	198	16	16	162
13....	106	27	....	....	....	....	100	296	188	14	16	196
14....	111	33	....	....	....	....	100	232	170	13	16	210
15....	120	41	....	....	....	....	98	226	149	13	16	206
16....	111	40	....	....	....	....	80	229	127	13	15	170
17....	97	34	....	....	....	....	56	194	113	13	15	184
18....	82	27	....	....	....	....	58	229	98	13	15	151
19....	80	26	....	....	....	....	70	238	89	13	15	127
20....	88	29	....	....	....	....	82	398	81	13	15	109
21....	80	27	....	....	....	....	113	406	70	13	12	88
22....	75	25	....	....	....	....	136	446	65	13	12	75
23....	70	20	....	....	....	....	145	406	62	13	12	66
24....	66	24	....	....	....	....	113	341	59	12	12	58
25....	65	25	....	....	....	....	102	266	55	12	12	55
26....	62	24	....	....	....	....	97	263	53	11	12	65
27....	61	26	....	....	....	....	115	282	48	15	31	69
28....	58	27	....	....	....	....	154	296	43	16	111	65
29....	54	28	....	....	....	....	180	316	36	20	102	74
30....	53	28	....	....	....	....	190	367	41	24	46	62
31....	51	....	....	....	....	....	....	363	....	27	33	....
Total	2738	986	682	636	560	1581	3263	9508	5089	576	750	2808
Mean.	88.3	32.9	22	20.5	20	51	109	307	170	18.6	24.2	93.6
Max..	260	47	....	....	....	....	190	446	414	35	111	210
Min...	41	20	....	....	....	....	56	194	36	11	12	15
Acre-ft.	5430	1960	1350	1260	1110	3140	6470	18860	10090	1140	1490	5570

Total run-off for water year 1938-39=57,870 acre-feet.
*Discharge measurement.

Discharge of Piedra River at Bridge Ranger Station Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	55	36	12	14	16	18	62	102	314	50	14	19
2....	52	35	12	14	16	19	61	149	275	40	13	19
3....	50	32	12	14	16	19	53	238	245	33	12	35
4....	45	30	12	14	16	20	52	348	220	34	11	31
5....	40	30	12	14	16	21	55	367	206	36	12	25
6....	36	29	12	14	16	22	55	348	180	33	13	23
7....	34	26	12	14	16	22	50	360	152	29	13	21
8....	47	24	12	14	16	23	50	299	137	27	12	17
9....	41	26	12	14	16	24	53	279	121	22	11	19
10....	35	22	12	14	16	24	53	320	106	18	10	16
11....	33	22	12	14	16	24	50	320	98	17	10	15
12....	32	21	12	14	16	21	55	302	91	17	10	14
13....	31	26	12	14	16	19	80	345	91	18	10	13
14....	29	23	12	14	16	20	116	414	85	16	10	13
15....	27	24	12	14	16	25	111	364	81	15	13	13
16....	27	24	12	14	16	27	89	328	76	15	15	14
17....	27	22	12	14	16	29	89	328	68	15	11	17
18....	26	20	12	14	16	31	104	294	65	16	10	111
19....	26	18	12	14	16	35	147	233	59	18	15	152
20....	25	16	12	14	16	42	190	211	56	16	22	108
21....	23	17	12	14	16	54	196	193	58	18	24	85
22....	23	16	12	14	16	70	201	195	66	15	22	105
23....	19	16	12	14	16	90	215	223	62	14	25	91
24....	20	15	12	14	16	111	198	225	53	14	46	77
25....	23	15	12	14	16	115	178	223	46	13	54	73
26....	37	15	12	14	16	104	192	245	43	13	50	76
27....	26	15	12	14	16	88	188	284	39	19	36	72
28....	29	15	12	14	16	72	142	300	35	19	30	95
29....	31	15	12	14	16	61	116	308	39	16	28	173
30....	29	14	12	14	....	70	98	322	76	18	25	204
31....	35	....	12	14	....	69	....	339	....	16	22	....
Total	1013	659	372	434	464	1389	3299	8806	3243	660	609	1746
Mean.	32.7	22.0	12	14	16	44.8	110	284	108	21.3	19.6	58.2
Max..	55	36	....	....	....	115	215	414	314	50	54	204
Min...	19	14	....	....	....	18	50	102	35	13	10	13
Acre-ft.	2010	1310	738	861	920	2760	6540	17470	6430	1310	1210	3460

Total run-off for water year 1939-40=45,020 acre-feet.
Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piedra River Near Dyke, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	80	75	42	38	47	59	292	379	610	164	48	60
2....	80	74	42	36	53	59	257	466	561	124	47	55
3....	80	74	44	40	49	65	220	678	502	106	45	67
4....	80	74	45	42	49	65	206	944	453	104	41	70
5....	80	74	45	42	49	65	232	1030	415	131	39	60
6....	80	82	43	40	27	68	232	944	383	127	42	55
7....	80	77	43	36	49	71	214	996	334	108	53	51
8....	80	75	45	38	49	70	223	890	302	100	53	48
9....	80	77	43	42	42	75	223	810	278	90	44	47
10....	80	70	45	44	37	73	229	890	241	83	40	47
11....	80	74	43	43	49	62	217	905	220	80	40	50
12....	80	68	37	40	51	61	241	860	206	76	39	48
13....	80	68	34	38	37	55	316	825	203	76	38	49
14....	80	61	32	35	38	59	453	978	192	76	38	49
15....	80	61	36	37	45	81	494	932	179	76	38	47
16....	80	55	36	40	41	85	431	835	187	72	40	45
17....	80	51	43	44	47	87	379	850	169	74	39	44
18....	80	51	32	43	45	96	379	885	152	72	36	192
19....	80	55	25	44	47	111	494	682	138	67	38	458
20....	80	53	23	40	49	124	682	628	133	63	60	313
21....	80	54	27	44	45	152	800	579	131	81	87	223
22....	80	52	28	43	48	192	770	561	129	68	65	257
23....	80	50	34	40	48	244	820	602	140	65	70	238
24....	80	48	33	42	47	292	740	588	116	56	108	198
25....	80	49	36	44	53	344	669	574	104	54	161	182
26....	80	50	30	46	60	363	664	588	96	49	154	182
27....	80	50	25	48	48	330	705	628	100	62	110	179
28....	80	49	27	47	51	302	561	628	90	74	89	176
29....	80	46	29	47	55	257	480	620	85	81	85	395
30....	80	44	34	47	....	264	411	602	189	60	72	476
31....	80	....	36	47	....	296	....	615	....	56	60	....
Total	2480	1841	1117	1297	1355	4527	13034	22992	7038	2575	1919	4361
Mean.	80.0	61.4	36.0	41.8	46.7	146	434	742	235	83.1	61.9	145
Max..	....	82	45	48	60	363	820	1030	610	164	161	476
Min...	....	44	23	35	27	55	206	379	85	49	36	44
Acre-ft.	4920	3650	2220	2570	2690	8980	25850	45600	13960	5110	3810	8650

Total run-off for water year 1939-40=128,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Creek Near Bridge Ranger Station Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	23	24	....	....	....	....	28	158	150	32	12	12
2....	21	25	....	....	....	....	30	164	137	30	12	11
3....	25	28	....	....	....	....	31	140	150	26	11	8.6
4....	21	29	....	....	....	....	33	150	175	24	10	7.4
5....	25	27	....	....	....	....	40	172	170	20	9.8	8.6
6....	42	23	....	....	....	....	38	164	145	19	19	19
7....	86	25	....	....	....	....	36	137	122	17	24	39
8....	97	28	....	....	....	....	40	147	117	16	15	56
9....	69	28	....	....	....	....	40	172	119	15	12	38
10....	60	22	....	....	....	....	38	188	114	14	11	37
11....	54	21	....	....	....	....	32	184	119	13	9.2	77
12....	53	24	....	....	....	....	28	164	98	12	8.6	63
13....	58	25	....	....	....	....	28	150	94	12	8.0	75
14....	64	28	....	....	....	....	30	132	85	11	8.0	85
15....	64	31	....	....	....	....	30	124	77	12	8.0	94
16....	64	29	....	....	....	....	29	119	66	14	7.4	61
17....	63	23	....	....	....	....	29	110	60	12	8.0	75
18....	42	26	....	....	....	....	29	124	54	13	8.6	63
19....	48	28	....	....	....	....	28	161	45	11	9.2	54
20....	48	30	....	....	....	....	28	172	43	10	5.0	45
21....	48	29	....	....	....	....	40	194	37	10	4.6	39
22....	44	27	....	....	....	....	56	194	34	10	4.6	35
23....	40	25	....	....	....	....	110	175	36	9.2	3.8	31
24....	36	22	....	....	....	....	120	153	36	6.2	4.6	29
25....	33	23	....	....	....	....	110	130	33	5.0	5.0	28
26....	30	23	....	....	....	....	100	127	30	4.2	5.6	33
27....	28	25	....	....	....	....	92	145	31	6.8	7.4	35
28....	27	27	....	....	....	....	117	134	32	9.8	20	29
29....	26	27	....	....	....	....	132	147	31	12	33	30
30....	24	27	....	....	....	....	140	158	33	12	19	27
31....	24	....	....	....	....	....	....	158	....	15	14	....
Total	1387	779	496	263.5	232.4	728.5	1662	4747	2473	433.2	337.4	1244.6
Mean.	44.7	26.0	16	8.5	8.3	23.5	55.4	153	82.4	14.0	10.9	41.5
Max..	97	31	....	....	....	....	140	194	175	32	33	94
Min...	21	21	....	....	....	....	28	110	30	4.2	3.8	7.4
Acre-ft.	2750	1550	984	523	461	1440	3300	9420	4910	859	669	2470

Total run-off for water year 1938-39=29,340 acre-feet.

Discharge of Williams Creek Near Bridge Ranger Station Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	25	16	6.2	6.8	8.4	25	50	62	70	23	11	13
2....	25	17	6.2	6.8	8.4	25	45	76	64	19	10	13
3....	25	16	6.2	6.8	8.4	25	41	118	60	16	9.6	10
4....	26	15	6.2	6.8	8.4	25	43	164	56	17	9.0	10
5....	26	15	6.2	6.8	8.4	25	47	170	54	18	9.6	12
6....	27	16	6.2	6.8	8.4	25	46	170	48	15	13	13
7....	27	15	6.2	6.8	8.4	25	45	180	47	14	11	9.0
8....	27	14	6.2	6.8	8.4	25	44	164	46	13	10	9.0
9....	21	15	6.2	6.8	8.4	25	43	161	44	14	8.5	8.5
10....	18	14	6.2	6.8	8.4	25	41	180	42	12	8.0	9.0
11....	18	13	6.2	6.8	8.4	25	42	177	39	11	7.5	9.0
12....	18	12	6.2	6.8	8.4	25	47	167	36	10	7.5	9.0
13....	18	11	6.2	6.8	8.4	25	52	167	38	10	7.5	9.0
14....	17	9.6	6.2	6.8	8.4	25	64	174	35	10	8.5	9.6
15....	17	9.2	6.2	6.8	8.4	25	88	167	35	11	9.0	9.0
16....	15	9.0	6.2	6.8	8.4	25	80	152	35	11	8.0	8.5
17....	14	8.5	6.2	6.8	8.4	25	72	149	32	11	7.5	10
18....	14	8.0	6.2	6.8	8.4	25	74	135	28	11	7.5	54
19....	14	8.0	6.2	6.8	8.4	25	88	110	26	10	11	72
20....	14	8.0	6.2	6.8	8.4	25	125	105	25	12	15	47
21....	14	8.2	6.2	6.8	8.4	25	140	100	22	18	14	37
22....	13	8.0	6.2	6.8	8.4	25	140	95	21	14	13	46
23....	13	8.0	6.2	6.8	8.4	25	149	102	18	14	13	56
24....	12	7.6	6.2	6.8	8.4	25	138	95	17	13	22	52
25....	14	7.6	6.2	6.8	8.4	25	115	100	16	11	28	90
26....	16	7.8	6.2	6.8	8.4	25	108	82	17	10	28	59
27....	14	8.0	6.2	6.8	8.4	25	105	80	15	15	21	57
28....	15	7.5	6.2	6.8	8.4	25	86	82	14	22	17	90
29....	15	7.4	6.2	6.8	8.4	25	74	78	14	15	16	102
30....	14	7.4	6.2	6.8	....	25	64	86	28	17	15	92
31....	15	....	6.2	6.8	....	25	....	80	....	13	14	....
Total	561	326.8	192.2	210.8	243.6	775	2296	3928	1042	430	389.7	1024.6
Mean.	18.1	10.9	6.2	6.8	8.4	25	76.5	127	34.7	13.9	12.6	34.2
Max..	27	17	....	....	....	....	149	180	70	23	28	102
Min...	12	7.4	....	....	....	....	41	62	14	10	7.5	8.5
Acre-ft.	1110	648	381	418	483	1540	4550	7790	2070	853	773	2030

Total run-off for water year 1939-40=22,650 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Wemimuche Creek Near Bridge Ranger Station Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	23	41	26	....	....	....	26	205	121	26	12	22
2....	26	38	24	....	....	....	28	221	126	22	12	18
3....	44	35	24	....	....	....	29	182	136	22	12	14
4....	35	34	24	....	....	....	30	175	148	20	11	12
5....	42	34	24	....	....	....	36	205	158	19	10	12
6....	79	28	24	....	....	....	34	225	138	17	16	24
7....	160	18	21	....	....	....	33	187	134	15	22	33
8....	185	26	20	....	....	....	39	194	110	15	13	58
9....	123	29	19	....	....	....	36	205	103	15	11	47
10....	100	29	18	....	....	....	28	242	103	13	9.8	39
11....	89	26	18	....	....	....	26	246	93	12	9.5	84
12....	79	26	18	....	....	....	26	230	83	12	8.6	79
13....	84	16	17	....	....	....	28	201	79	12	7.7	91
14....	91	26	12	....	....	....	28	178	74	12	7.7	98
15....	96	30	13	....	....	....	26	172	66	12	7.1	92
16....	104	30	15	....	....	....	26	158	57	14	7.1	70
17....	105	30	13	....	....	....	25	139	53	11	6.6	66
18....	89	29	11	....	....	....	24	150	45	10	6.6	53
19....	84	29	13	....	....	....	24	187	43	10	7.1	43
20....	79	28	12	....	....	....	26	212	39	10	6.3	39
21....	74	27	12	....	....	....	59	203	35	9.2	6.6	32
22....	70	24	11	....	....	....	128	210	32	9.2	7.7	31
23....	62	23	10	....	....	....	156	197	33	9.5	7.1	28
24....	60	21	8	....	....	....	130	168	31	9.2	7.7	26
25....	56	22	9	....	....	....	115	139	27	8.6	8.3	24
26....	55	22	10	....	....	....	103	132	25	8.0	8.9	29
27....	54	24	9	....	....	....	117	144	24	11	18	47
28....	50	26	10	....	....	....	158	139	28	17	52	31
29....	45	26	9	....	....	....	175	138	26	18	69	29
30....	43	26	9	....	....	....	185	136	28	18	37	26
31....	41	....	10	....	....	....	....	120	....	15	26	....
Total	2327	823	470	254.2	226.8	713	1904	5640	2198	431.7	451.4	1297
Mean.	75.1	27.4	15.2	8.2	8.1	23	63.5	182	73.3	13.9	14.6	43.2
Max..	185	41	26	....	....	....	185	246	158	26	69	98
Min...	23	16	8	....	....	....	24	120	24	8.0	6.3	12
Acre-ft.	4620	1630	932	504	450	1410	3780	11190	4360	856	895	2570

Total run-off for water year 1938-39=33,200 acre-feet.

Discharge of Weminuche Creek Near Bridge Ranger Station Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	24	22	6.0	6.5	9.0	11	61	70	88	27	9.2	11
2....	22	22	6.0	6.5	9.0	11	49	85	82	18	8.6	10
3....	21	20	6.0	6.5	9.0	12	44	129	74	15	7.5	11
4....	20	18	6.0	6.5	9.0	12	45	166	67	13	6.5	10
5....	18	19	6.0	6.5	9.0	12	52	185	62	15	6.2	9.2
6....	18	17	6.0	6.5	9.0	13	52	171	57	14	8.6	8.2
7....	17	16	6.0	6.5	9.0	13	49	177	49	12	9.2	7.8
8....	35	16	6.0	6.5	9.0	14	48	160	43	13	8.2	7.2
9....	29	18	6.0	6.5	9.0	14	46	156	40	12	6.8	7.0
10....	22	15	6.0	6.5	9.0	15	45	172	36	11	6.0	7.2
11....	21	15	6.0	6.5	9.0	14	44	174	32	10	5.8	7.5
12....	22	14	6.0	6.5	9.0	13	47	166	29	9.2	5.2	7.5
13....	21	12	6.0	6.5	9.0	12	59	158	29	8.9	5.0	10
14....	18	11	6.0	6.5	9.0	14	87	174	27	8.9	4.8	8.2
15....	18	10	6.0	6.5	9.0	18	93	160	26	9.2	5.0	8.2
16....	17	10	6.0	6.5	9.0	19	80	150	33	9.2	5.0	7.2
17....	16	9	6.0	6.5	9.0	20	74	154	29	10	5.0	7.8
18....	15	8.5	6.0	6.5	9.0	21	75	149	26	10	4.8	96
19....	15	8.2	6.0	6.5	9.0	24	100	130	23	9.6	9.2	117
20....	15	8.4	6.0	6.5	9.0	27	126	117	21	10	16	82
21....	15	8.5	6.0	6.5	9.0	31	143	108	20	12	14	60
22....	14	8.5	6.0	6.5	9.0	37	140	105	20	10	13	69
23....	14	8.2	6.0	6.5	9.0	46	147	104	18	11	18	59
24....	13	8.0	6.0	6.5	9.0	57	136	99	15	10	31	47
25....	15	8.0	6.0	6.5	9.0	70	125	98	14	8.9	33	45
26....	23	8.2	6.0	6.5	9.0	80	123	100	15	8.2	29	43
27....	19	8.2	6.0	6.5	9.0	76	110	104	15	11	20	38
28....	20	8.2	6.0	6.5	9.0	70	95	101	13	21	16	50
29....	22	8.0	6.0	6.5	9.0	64	80	97	13	17	14	97
30....	20	7.8	6.0	6.5	....	60	68	91	36	14	13	113
31....	22	....	6.0	6.5	....	66	....	91	....	11	11	....
Total	601	370.7	186.0	201.5	261.0	966	2443	4101	1052	379.1	354.6	1061.0
Mean.	19.4	12.4	6.0	6.5	9.0	31.2	81.4	132	35.1	12.2	11.4	35.4
Max..	35	22	....	....	....	80	147	185	88	27	33	117
Min...	13	7.8	....	....	....	11	44	70	13	8.2	4.8	7.0
Acre-ft.	1190	735	369	400	518	1920	4850	8130	2090	752	703	2100

Total run-off for water year 1939-40=23,760 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Los Pinos River Below Snowslide Canyon Near Wemimuche Pass, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	25	40	....	....	....	....	....	122	94	21	13	11
2....	30	39	....	....	....	....	....	122	85	20	12	10
3....	38	....	....	....	....	....	....	85	99	20	11	9.0
4....	32	....	....	....	....	....	....	115	130	20	11	8.5
5....	33	....	....	....	....	....	....	149	122	19	11	11
6....	43	....	....	....	....	....	....	118	96	18	20	23
7....	47	....	....	....	....	....	....	92	85	18	18	26
8....	44	....	....	....	....	....	....	115	71	17	13	35
9....	42	....	....	....	....	....	....	159	69	16	11	26
10....	41	....	....	....	....	....	....	188	67	16	11	27
11....	39	....	....	....	....	....	....	169	75	15	10	36
12....	39	....	....	....	....	....	....	137	67	16	9.5	35
13....	43	....	....	....	....	....	....	101	62	14	9.5	29
14....	49	....	....	....	....	....	....	85	57	14	9.0	28
15....	69	....	....	....	....	....	....	77	50	14	9.0	25
16....	81	....	....	....	....	....	....	67	42	14	9.0	22
17....	75	....	....	....	....	....	....	59	38	13	8.5	20
18....	62	....	....	....	....	....	....	92	33	13	9.0	18
19....	57	....	....	....	....	....	....	156	30	12	8.0	17
20....	51	....	....	....	....	....	....	169	27	11	7.0	16
21....	49	....	....	....	....	....	....	164	24	11	7.5	15
22....	48	....	....	....	....	....	....	174	22	10	7.5	15
23....	44	....	....	....	....	....	....	130	23	9.5	7.0	14
24....	44	....	....	....	....	....	....	85	20	9.0	8.5	14
25....	43	....	....	....	....	....	....	69	17	9.0	9.5	14
26....	41	....	....	....	....	....	....	81	16	11	9.0	18
27....	40	....	....	....	....	....	....	113	20	14	9.5	18
28....	42	....	....	....	....	....	....	120	25	16	16	16
29....	42	....	....	....	....	....	....	125	22	16	20	14
30....	42	....	....	....	....	....	....	103	22	16	14	14
31....	41	....	....	....	....	....	....	99	....	15	11	....
Total	1416	79	....	....	....	....	1350	3640	1610	457.5	339.0	584.5
Mean.	45.7	....	....	....	....	....	45	117	53.7	14.8	10.9	19.5
Max..	81	....	....	....	....	....	....	188	130	21	20	36
Min...	25	....	....	....	....	....	....	59	16	9.0	7.0	8.5
Acre-ft.	2810	....	....	....	....	....	2680	7220	3190	907	672	1160

Total run-off for period=18,639 acre-feet.

Discharge of Los Pinos River Below Snowslide Canon Near Weminuche Pass, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	12	....	....	....	....	45	44	50	17	7.2	9.3
2....	13	9.9	....	....	....	....	45	54	45	15	7.2	9.9
3....	13	8.8	....	....	....	....	45	76	40	14	7.7	11
4....	12	7.7	....	....	....	....	45	100	38	13	6.6	9.9
5....	12	7.7	....	....	....	....	45	110	36	13	7.7	9.3
6....	12	5.5	....	....	....	....	45	100	32	13	10	8.8
7....	12	7.2	....	....	....	....	45	105	28	13	9.3	8.8
8....	14	7.2	....	....	....	....	45	100	27	14	8.2	8.2
9....	13	5.0	....	....	....	....	45	95	24	13	7.2	7.7
10....	14	7.7	....	....	....	....	45	106	24	13	6.6	7.7
11....	14	....	....	....	....	....	45	108	28	12	6.6	8.2
12....	13	....	....	....	....	....	45	91	28	12	6.1	8.8
13....	12	....	....	....	....	....	45	111	26	12	6.6	9.3
14....	12	....	....	....	....	....	45	115	25	11	6.6	8.2
15....	10	....	....	....	....	....	45	106	25	11	6.6	7.7
16....	10	....	....	....	....	....	45	93	24	12	6.6	7.2
17....	9.9	....	....	....	....	....	45	80	23	11	6.6	12
18....	9.3	....	....	....	....	....	45	66	21	10	8.8	70
19....	8.8	....	....	....	....	....	45	62	20	9.3	12	58
20....	8.8	....	....	....	....	....	45	56	20	9.3	14	39
21....	8.8	....	....	....	....	....	45	52	19	9.3	11	30
22....	8.2	....	....	....	....	....	45	48	18	8.2	10	31
23....	8.2	....	....	....	....	....	45	52	17	7.7	10	26
24....	8.8	....	....	....	....	....	45	58	16	8.2	16	24
25....	8.8	....	....	....	....	....	45	59	15	7.7	15	25
26....	12	....	....	....	....	....	45	63	15	7.7	14	23
27....	18	....	....	....	....	....	45	65	15	9.3	12	20
28....	18	....	....	....	....	....	45	58	14	12	11	24
29....	15	....	....	....	....	....	45	55	16	10	11	50
30....	16	Nov. 1	....	....	....	....	45	53	24	9.3	9.9	58
31....	12	to 10	....	....	....	....	....	53	....	8.2	9.9	....
Total	370.6	78.7	....	....	....	....	1350	2394	753	345.2	288.0	630.0
Mean.	12.0	7.87	....	....	....	....	45	77.2	25.1	11.1	9.29	21.0
Max..	18	12	....	....	....	....	....	115	50	17	16	70
Min...	8.2	5.0	....	....	....	....	....	44	14	7.7	6.1	7.2
Acre-ft.	735	156	....	....	....	....	2680	4750	1490	685	571	1250

Total run-off for period=12,320 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pine or Los Pinos River Near Bayfield, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	217	241	115	74	58	60	231	735	894	263	162	169
2....	211	239	111	74	59	66	278	951	838	247	143	150
3....	260	225	102	74	62	60	291	838	866	247	134	136
4....	263	228	107	75	63	62	317	824	1000	240	127	125
5....	250	240	107	75	66	62	321	1070	1070	234	123	123
6....	349	210	105	74	64	59	332	1160	908	225	121	302
7....	499	160	100	74	63	60	324	915	782	214	152	406
8....	612	195	97	75	62	60	324	915	726	206	150	582
9....	520	215	90	75	60	60	370	1040	700	197	129	642
10....	468	212	84	74	54	64	379	1200	694	194	119	537
11....	444	193	88	70	56	64	345	1300	700	185	113	714
12....	420	197	87	66	57	66	336	1160	662	179	104	768
13....	434	149	84	68	57	70	340	1020	655	167	98	707
14....	478	169	75	69	57	78	349	873	630	157	95	582
15....	263	200	82	69	54	86	328	859	564	152	92	537
16....	222	178	90	68	62	100	298	817	520	157	90	454
17....	454	168	86	69	57	110	270	720	468	143	90	397
18....	458	152	75	70	55	120	260	700	402	134	90	357
19....	430	155	87	75	59	129	274	973	353	127	86	313
20....	402	164	88	68	62	174	298	1220	321	121	81	291
21....	383	152	90	68	56	198	349	1230	294	115	76	267
22....	366	148	81	69	54	211	434	1300	280	117	78	250
23....	349	120	74	66	55	257	520	1240	277	119	76	234
24....	328	110	68	62	57	284	463	1040	284	111	75	217
25....	321	110	70	66	59	270	420	831	280	107	75	206
26....	309	109	74	68	59	277	402	789	274	104	84	203
27....	294	107	72	66	62	280	463	880	267	105	97	225
28....	284	107	75	64	72	260	600	958	270	125	105	211
29....	270	104	76	62	....	244	761	1040	267	164	225	195
30....	250	109	74	62	....	228	707	1050	263	177	238	182
31....	234	....	74	62	....	222	....	887	....	179	195	....
Total	11042	5066	2688	2151	1661	4341	11334	30535	16509	5212	3623	10482
Mean.	356	169	86.7	69.4	59.3	140	378	985	550	168	117	349
Max..	612	241	115	75	72	284	761	1300	1070	263	238	768
Min...	211	104	68	62	54	59	228	700	263	104	75	123
Acre-ft.	21900	10050	5330	4270	3290	8610	22480	60570	32750	10340	7190	20790

Total run-off for water year 1938-39=207,570 acre-feet.

Discharge of Pine or Los Pinos River Near Bayfield, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	169	119	74	56	56	66	195	484	727	222	113	109
2....	162	123	74	56	62	63	195	588	714	208	107	105
3....	152	123	70	56	60	64	184	554	694	190	102	105
4....	143	121	72	56	59	63	177	642	662	174	95	105
5....	138	119	75	56	56	62	177	768	520	164	90	98
6....	134	123	74	53	54	62	179	852	484	155	88	95
7....	132	121	72	50	54	60	174	922	458	145	98	88
8....	143	115	70	48	55	62	174	958	484	134	102	88
9....	150	117	70	53	55	68	172	966	444	127	92	84
10....	138	119	70	54	58	70	177	996	374	129	86	81
11....	134	111	70	54	58	70	177	1030	345	132	80	80
12....	132	111	68	59	59	64	182	1040	324	119	76	76
13....	127	109	62	56	59	59	206	1040	345	111	76	74
14....	125	105	59	52	55	59	267	1060	345	113	76	70
15....	121	102	58	50	60	64	340	1070	305	115	74	69
16....	117	98	59	50	56	70	340	1080	270	113	74	68
17....	113	93	60	53	56	76	302	1090	270	117	74	70
18....	109	93	60	56	58	81	62	1090	267	127	70	152
19....	105	92	54	55	55	87	10	1040	305	127	69	484
20....	102	88	53	58	56	93	10	915	324	123	87	582
21....	98	88	53	54	55	105	19	754	274	119	105	542
22....	97	87	53	55	56	127	353	754	250	115	102	504
23....	95	86	54	54	59	157	554	714	247	113	100	484
24....	93	86	54	54	60	182	655	681	234	113	109	439
25....	97	84	59	54	59	211	662	714	217	105	129	383
26....	127	82	58	55	62	238	588	768	206	100	143	349
27....	127	86	50	55	62	241	570	768	192	104	148	324
28....	117	86	52	54	62	228	510	775	182	113	141	309
29....	117	82	55	53	64	208	434	768	174	123	132	366
30....	115	78	53	54	....	195	388	768	197	121	123	520
31....	115	....	56	54	....	195	....	741	....	119	117	....
Total	3844	3047	1921	1677	1680	3450	8433	26390	10834	4090	3078	6903
Mean.	124	102	62.0	54.1	57.9	111	281	851	364	132	99.3	230
Max..	169	123	75	59	64	241	662	1090	748	222	148	582
Min...	93	78	50	48	54	59	10	484	174	100	69	68
Acre-ft.	7620	6040	3810	3330	3330	6840	16730	52340	21490	8110	6110	13690

Total run-off for water year 1939-40=149,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pine or Los Pinos River at Ignacio, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	231	69	85	70	70	291	648	543	5.2	5.2	12
2....	44	234	72	85	65	75	330	786	456	4.9	4.0	9.5
3....	77	220	69	90	60	80	397	698	445	4.6	3.5	7.6
4....	92	214	72	90	65	80	484	641	495	4.6	4.3	6.8
5....	77	214	96	85	60	75	423	810	555	4.6	4.0	8.0
6....	132	210	94	90	65	70	418	958	439	4.6	4.9	21
7....	339	188	96	94	70	80	397	746	317	4.0	6.0	134
8....	525	174	94	90	75	85	397	655	256	4.0	5.7	230
9....	403	180	88	86	65	90	434	698	238	3.8	4.6	418
10....	363	180	85	86	55	100	456	859	198	3.5	3.8	321
11....	349	168	86	83	65	100	423	949	198	3.5	3.5	513
12....	308	166	90	81	70	100	403	826	174	4.0	3.5	525
13....	321	157	98	77	75	105	413	683	129	4.0	3.2	501
14....	358	147	94	75	80	109	413	519	113	4.0	3.5	408
15....	358	134	98	75	85	122	397	467	90	4.6	3.5	382
16....	56	142	107	80	85	134	363	434	52	4.3	3.2	276
17....	297	137	107	80	90	157	335	373	32	3.8	4.9	210
18....	429	137	96	80	90	180	317	326	28	3.2	5.4	217
19....	392	129	92	75	85	207	326	450	22	3.0	6.4	127
20....	363	127	103	75	75	245	349	722	18	2.9	6.8	105
21....	330	127	107	90	65	287	387	786	13	2.9	7.2	70
22....	308	122	103	98	65	358	456	794	8.7	2.7	7.6	50
23....	279	125	94	94	70	423	543	754	8.0	2.7	7.6	38
24....	256	122	88	92	75	423	507	588	6.8	2.9	7.6	30
25....	234	107	79	80	75	377	413	445	5.7	3.8	7.2	26
26....	227	105	88	80	75	368	363	363	5.4	4.3	8.3	26
27....	220	107	83	80	70	397	392	392	5.4	4.3	7.6	28
28....	210	100	88	85	70	353	501	473	4.9	15	12	32
29....	210	77	85	75	....	349	662	543	5.2	20	21	25
30....	220	69	80	80	....	308	662	588	5.2	8.7	14	21
31....	224	....	80	85	....	287	....	543	....	8.0	13	....
Total	8049	4550	2781	2601	2015	6194	12652	19517	4866.3	156.4	203.0	4777.9
Mean.	260	152	89.7	83.9	72.0	200	422	630	162	5.05	6.55	159
Max..	525	234	107	98	90	423	662	958	555	20	21	525
Min...	44	69	69	75	55	70	291	326	4.9	2.7	3.2	6.8
Acre-ft.	15960	9020	5520	5160	4000	12290	25090	38710	9650	310	403	9480

Total run-off for water year 1938-39=135,590 acre-feet.

Discharge of Pine or Los Pinos River at Ignacio, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	67	74	60	70	108	217	268	224	5.4	2.3	15
2....	15	69	72	55	65	100	224	450	214	5.1	2.1	14
3....	14	74	59	60	60	102	214	372	192	4.5	1.9	15
4....	14	94	34	65	69	96	208	395	181	4.2	1.9	20
5....	18	94	31	60	64	98	204	502	93	5.1	1.9	18
6....	21	90	31	60	70	102	211	571	29	5.9	2.7	14
7....	17	96	29	55	65	96	204	620	20	5.9	3.6	14
8....	25	98	29	55	59	108	201	641	16	4.8	3.3	13
9....	22	100	29	60	65	138	201	634	19	4.8	3.0	10
10....	23	98	37	60	65	126	201	648	12	4.2	3.3	8.6
11....	23	92	72	60	64	117	201	690	8.6	3.9	3.9	11
12....	22	88	72	55	65	98	208	676	8.2	4.2	4.2	8.6
13....	20	87	67	50	65	85	220	669	7.7	4.2	3.6	10
14....	15	85	64	50	70	81	273	669	8.2	4.5	3.9	10
15....	25	81	62	50	69	92	341	648	8.2	3.9	3.9	9.5
16....	25	76	62	60	56	106	358	641	7.2	4.2	4.5	10
17....	25	72	60	60	64	117	325	683	5.9	8.0	4.5	11
18....	25	70	60	60	65	124	243	714	5.9	6.3	4.2	29
19....	25	70	56	60	67	126	72	655	5.1	5.1	3.6	220
20....	25	69	40	55	60	129	53	557	6.8	4.8	5.1	425
21....	40	67	45	60	59	136	50	410	8.6	4.8	5.9	420
22....	32	67	45	60	64	156	184	354	7.7	4.5	4.8	376
23....	29	70	60	60	67	181	465	321	5.9	4.2	5.1	363
24....	24	67	55	60	69	204	599	258	5.4	3.6	12	350
25....	26	69	60	60	74	227	613	240	5.1	3.0	24	309
26....	96	72	60	60	87	258	550	289	4.8	2.7	19	265
27....	88	77	45	60	92	273	490	285	4.5	3.3	14	230
28....	74	79	45	55	98	273	445	281	4.5	3.6	15	214
29....	69	79	50	55	108	237	333	262	4.8	3.0	18	237
30....	67	77	55	60	....	217	265	281	6.3	2.4	17	372
31....	67	....	60	65	....	214	....	254	....	2.1	15	....
Total	1029	2394	1620	1805	2015	4525	8373	14938	1129.4	136.2	217.2	4021.7
Mean.	33.2	79.8	52.3	58.2	69.5	146	279	482	37.6	4.39	7.01	134
Max..	96	100	74	65	108	273	613	714	224	8.0	24	425
Min...	14	67	29	50	56	81	50	240	4.5	2.1	1.9	8.6
Acre-ft.	2040	4750	3210	3580	4000	8980	16610	29630	2240	270	431	7980

Total run-off for water year 1939-40=83,720 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Howardsville, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	45	57	....	....	....	15	26	223	410	158	60	32
2....	48	57	....	....	....	15	27	258	396	155	55	32
3....	49	54	....	....	....	15	28	234	470	160	51	30
4....	46	56	....	....	....	15	30	282	548	160	48	30
5....	56	54	....	....	....	15	32	332	530	160	46	35
6....	72	48	....	....	....	15	36	298	460	158	66	76
7....	82	46	....	....	....	15	39	223	425	142	78	70
8....	88	45	....	....	....	15	39	220	430	138	59	99
9....	82	46	....	....	....	15	39	282	460	135	53	86
10....	78	44	....	....	....	15	39	364	465	132	55	83
11....	76	44	....	....	....	15	40	364	455	125	51	113
12....	74	42	....	....	....	15	40	310	465	120	47	150
13....	77	40	....	....	....	15	40	250	495	109	42	140
14....	84	38	....	....	....	15	40	238	485	103	42	118
15....	120	37	....	....	....	15	40	274	430	103	39	99
16....	130	37	....	....	....	15	41	270	382	97	37	90
17....	116	36	....	....	....	15	44	246	350	86	35	78
18....	108	34	....	....	....	15	46	274	270	78	34	70
19....	96	34	....	....	....	15	50	382	212	72	32	66
20....	87	34	....	....	....	16	54	415	183	69	31	60
21....	79	33	....	....	....	17	56	460	168	64	32	56
22....	76	30	....	....	....	19	66	465	189	59	31	54
23....	69	28	....	....	....	22	75	415	206	56	31	49
24....	66	27	....	....	....	24	68	342	206	51	33	49
25....	65	27	....	....	....	24	68	286	206	48	31	48
26....	62	27	....	....	....	24	78	286	202	54	31	47
27....	62	26	....	....	....	24	120	360	192	62	32	45
28....	56	26	....	....	....	23	177	450	186	80	34	42
29....	54	27	....	....	....	23	202	512	189	76	35	42
30....	53	27	....	....	....	24	195	506	171	72	36	39
31....	54	....	....	....	....	25	....	465	....	68	34	....
Total	2310	1161	....	....	....	550	1875	10286	10236	3150	1321	2028
Mean.	74.5	38.7	....	....	....	17.7	62.5	332	341	102	42.6	67.6
Max..	130	57	....	....	....	25	202	512	548	160	78	150
Min...	45	26	....	....	....	15	26	220	168	48	31	30
Acre-ft.	4580	2300	....	....	....	1090	3720	20400	20300	6250	2620	4020

Total run-off for period=65,280 acre-feet.

Discharge of Animas River at Howardsville, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	40	22	18	16	15	14	20	88	584	114	36	29
2....	38	22	18	16	15	14	20	99	548	105	35	29
3....	36	22	18	16	14	14	19	144	475	98	33	30
4....	35	22	18	16	15	13	19	202	440	91	32	29
5....	32	22	18	16	15	14	19	232	405	84	31	28
6....	31	22	18	16	15	14	20	248	355	78	31	29
7....	29	22	17	15	15	14	20	292	350	75	32	29
8....	32	22	17	14	15	14	20	320	340	70	29	28
9....	32	22	16	15	15	14	20	430	292	65	28	27
10....	28	21	17	16	15	14	20	495	276	62	27	26
11....	28	20	16	16	14	14	20	524	305	59	26	26
12....	28	20	16	16	15	14	20	548	350	56	26	27
13....	28	21	16	15	15	13	24	500	380	57	24	28
14....	27	20	16	14	15	14	28	495	395	57	24	27
15....	27	20	16	13	14	14	32	506	350	53	25	27
16....	26	20	16	12	14	14	31	475	310	56	25	26
17....	26	20	16	14	14	14	29	400	310	57	24	32
18....	25	20	16	15	15	14	37	280	276	54	24	75
19....	25	20	16	14	15	14	57	228	252	49	26	89
20....	24	20	16	15	15	14	94	224	228	48	29	81
21....	24	20	16	16	14	14	132	202	220	46	28	81
22....	24	19	16	20	14	15	148	192	210	46	29	88
23....	23	19	16	17	14	16	174	260	199	45	32	83
24....	23	19	16	16	14	17	185	360	188	43	36	78
25....	24	19	15	15	13	20	174	425	169	41	40	74
26....	21	19	14	15	14	20	172	440	153	42	40	71
27....	22	19	14	15	14	20	169	485	139	40	38	65
28....	21	19	15	14	13	20	132	506	132	42	36	67
29....	21	19	15	15	14	20	108	518	125	40	33	78
30....	22	18	15	15	....	20	98	572	132	39	32	94
31....	22	....	15	15	....	20	....	578	....	36	31	....
Total	847	610	502	473	419	480	2061	11268	8888	1848	942	1501
Mean.	27.3	20.3	16.2	15.3	14.4	15.5	68.7	363	296	59.6	30.4	50.0
Max..	40	22	18	20	15	20	185	578	584	114	40	94
Min...	21	18	14	12	13	13	19	88	125	36	24	26
Acre-ft.	1680	1210	996	938	831	952	4090	22350	17630	3670	1870	2980

Total run-off for water year 1939-40=59,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Durango, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	319	417	266	194	160	183	462	1540	1850	638	373	319
2....	311	422	258	205	173	180	577	1860	1660	613	341	303
3....	341	402	239	208	170	187	656	1640	1800	619	328	278
4....	332	393	246	205	166	194	676	1640	2120	619	311	258
5....	337	402	250	194	165	187	650	2080	2340	607	319	250
6....	407	373	239	208	165	190	701	2270	2020	613	298	488
7....	543	337	239	212	170	194	650	1680	1760	577	393	676
8....	736	346	239	212	180	201	650	1570	1660	554	398	728
9....	701	364	231	220	180	201	764	1830	1670	538	355	830
10....	638	350	231	205	170	205	757	2240	1720	516	328	701
11....	607	341	235	201	165	212	656	2340	1740	499	303	1020
12....	577	337	235	190	165	208	644	2160	1620	477	278	1310
13....	588	319	227	194	170	212	676	1820	1720	452	262	1380
14....	625	315	208	198	180	235	695	1500	1760	427	246	1080
15....	682	319	220	187	190	258	625	1520	1640	417	235	845
16....	816	311	242	216	190	266	577	1520	1380	422	231	701
17....	801	307	231	201	176	303	532	1380	1280	388	223	613
18....	721	303	220	212	166	337	516	1310	1080	373	216	549
19....	663	290	235	216	190	388	554	1730	896	346	208	499
20....	619	298	235	208	183	462	600	2240	779	324	201	477
21....	588	298	239	205	163	494	701	2330	701	307	208	442
22....	560	282	231	208	205	499	878	2460	701	294	205	417
23....	532	278	212	201	205	554	1070	2390	736	286	201	402
24....	510	282	194	183	183	600	923	2020	750	282	205	378
25....	488	258	194	173	180	588	793	1590	736	282	212	364
26....	477	274	176	180	183	600	801	1420	728	274	201	393
27....	462	254	163	183	176	571	941	1600	695	262	212	427
28....	452	246	190	201	169	510	1280	1850	682	294	250	407
29....	432	239	190	194	....	472	1640	2060	682	402	315	398
30....	422	246	194	194	....	422	1520	2200	663	432	350	378
31....	422	....	198	194	....	407	....	1970	....	407	355	....
Total	16709	9603	6907	6202	4938	10520	23165	57760	39569	13541	8561	17311
Mean.	539	320	223	194	176	339	772	1863	1319	437	276	577
Max..	816	422	266	220	205	600	1640	2460	2340	638	398	1380
Min...	311	239	163	173	160	180	462	1310	663	262	201	250
Acre-ft.	33140	19050	13700	11900	9790	20870	45950	114600	78480	26860	16980	34340

Total run-off for water year 1938-39=425,660 acre-feet.

Discharge of Animas River at Durango, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	364	231	194	194	160	170	350	676	2390	588	239	246
2....	346	231	190	169	166	175	360	721	2320	521	227	227
3....	328	231	194	176	163	180	332	941	2090	482	220	227
4....	319	227	194	176	166	180	319	1430	1780	452	208	250
5....	307	227	187	176	153	180	319	1830	1640	427	194	242
6....	294	227	187	166	146	180	332	1660	1440	412	198	227
7....	282	223	187	140	166	190	332	2030	1360	398	212	220
8....	286	227	187	160	163	187	341	1900	1300	373	205	205
9....	303	231	183	169	150	194	355	2130	1200	350	201	194
10....	290	239	183	176	150	194	360	2460	1060	328	190	201
11....	278	223	183	163	156	190	360	2630	1060	315	190	194
12....	270	223	183	163	163	183	360	2770	1100	298	176	190
13....	266	223	183	163	143	180	407	2650	1170	298	169	194
14....	258	227	169	128	153	183	521	2790	1250	328	166	198
15....	250	220	169	134	166	187	656	2850	1260	307	156	194
16....	250	212	169	140	146	187	644	2800	1080	294	160	187
17....	239	208	176	153	143	194	543	2540	1040	303	160	194
18....	235	208	173	156	146	201	510	2070	1020	364	150	412
19....	231	201	169	146	150	208	613	1630	923	341	152	1130
20....	223	198	156	140	166	223	896	1480	896	298	180	941
21....	220	205	156	153	160	239	1270	1340	823	303	194	764
22....	208	205	153	160	145	262	1270	1250	823	278	194	808
23....	198	198	163	150	160	298	1420	1280	779	282	216	793
24....	198	201	153	169	160	341	1380	1650	757	274	242	682
25....	208	205	160	163	165	393	1260	1940	708	266	298	594
26....	246	208	143	160	165	437	1150	1970	650	258	350	549
27....	250	208	122	160	170	427	1270	2120	594	266	355	526
28....	239	205	125	156	170	398	1020	2310	560	278	328	499
29....	231	201	134	150	170	355	853	2140	526	294	303	588
30....	220	198	166	150	....	332	750	2150	594	266	274	845
31....	220	....	194	156	....	337	....	2280	....	254	250	....
Total	8057	6471	5285	4915	4580	7585	20553	60218	34193	10496	6758	12721
Mean.	260	216	170	159	158	245	685	1943	1140	339	218	424
Max..	364	239	194	194	170	437	1420	2850	2390	588	355	1130
Min...	198	198	122	128	143	170	319	676	526	254	150	18
Ac.-ft.	15980	12840	10480	9750	9080	15040	40770	119400	67820	20820	13400	25230

Total run-off for water year 1939-40=360,610 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mineral Creek Near Silverton, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	42	22	....	....	16	33	187	296	118	65	55
2....	37	39	21	....	....	16	32	207	286	118	56	47
3....	39	39	21	....	....	16	35	183	355	124	53	41
4....	37	38	21	....	....	16	40	219	415	124	51	38
5....	41	39	21	....	....	16	45	273	410	127	50	58
6....	59	29	21	....	....	16	45	251	345	127	79	161
7....	64	28	21	....	....	16	43	191	305	118	91	133
8....	72	30	....	....	....	16	49	195	310	115	68	215
9....	68	30	....	....	....	16	56	260	325	112	58	146
10....	67	30	....	....	....	16	56	315	350	109	53	183
11....	68	29	....	....	....	16	52	310	350	104	47	268
12....	72	29	....	....	....	16	52	264	350	101	44	291
13....	76	27	....	....	....	16	56	215	375	93	42	243
14....	81	28	....	....	....	16	56	187	360	88	39	175
15....	96	29	....	....	....	16	54	199	315	91	37	130
16....	106	28	....	....	....	16	50	195	278	86	34	104
17....	96	26	....	....	....	16	50	168	239	79	32	88
18....	83	26	....	....	....	16	52	191	183	70	31	79
19....	68	26	....	....	....	17	60	282	150	65	30	72
20....	74	26	....	....	....	18	70	340	130	61	30	65
21....	70	25	....	....	....	20	80	375	121	58	31	59
22....	63	23	....	....	....	23	86	395	153	55	31	56
23....	61	22	....	....	....	29	104	345	168	53	30	51
24....	58	22	....	....	....	29	86	268	175	50	34	50
25....	58	22	....	....	....	30	83	223	171	48	32	55
26....	55	22	....	....	....	29	104	227	161	47	31	61
27....	55	22	....	....	....	28	146	286	150	59	32	61
28....	50	21	....	....	....	26	203	345	146	79	39	59
29....	47	21	....	....	....	27	203	385	146	104	56	58
30....	45	22	Dec. 1	....	....	29	168	385	130	96	74	55
31....	42	....	to 7	....	....	28	....	330	....	79	61	....
Total	1942	840	148	....	....	621	2249	8196	7648	2758	1441	3157
Mean.	62.6	28.0	21.1	....	....	20.0	75.0	264	255	89.0	46.5	105
Max..	106	42	22	....	....	30	203	385	415	127	91	291
Min...	34	21	21	....	....	16	32	168	121	47	30	38
Acre-ft.	3850	1670	294	....	....	1230	4460	16260	15170	5470	2860	6260

Total run-off for period=57,524 acre-feet.

Discharge of Mineral Creek Near Silverton, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	51	26	15	14	16	14	27	63	500	118	42	31
2....	47	25	15	14	16	14	25	83	450	106	41	34
3....	44	25	14	14	15	14	22	130	380	101	38	35
4....	42	24	16	14	15	14	20	195	350	93	35	32
5....	39	23	16	14	15	12	22	211	320	86	34	31
6....	38	24	15	14	14	14	21	223	291	81	35	31
7....	37	21	16	13	14	12	23	251	268	76	34	30
8....	39	21	15	14	13	13	23	264	251	72	31	29
9....	37	21	16	14	13	14	23	320	231	68	30	28
10....	32	19	16	14	14	14	21	390	227	63	29	28
11....	34	20	16	14	15	13	19	395	251	59	28	26
12....	32	21	14	14	14	12	21	410	273	58	27	28
13....	31	21	13	9.2	13	12	31	400	300	63	27	28
14....	31	18	13	10	15	12	48	400	325	59	26	27
15....	30	18	13	11	16	13	55	415	278	56	26	28
16....	29	18	14	14	16	13	42	385	243	59	27	26
17....	28	17	14	18	15	14	37	335	251	68	26	37
18....	27	16	14	17	14	14	42	247	239	68	26	175
19....	27	15	11	16	16	14	74	211	223	56	27	191
20....	26	17	12	17	14	16	124	207	211	56	30	157
21....	25	17	12	16	14	18	150	183	203	55	28	139
22....	25	16	12	16	16	21	171	171	191	56	29	161
23....	25	16	12	15	14	26	187	215	179	56	32	136
24....	25	17	13	16	14	31	168	264	171	56	45	112
25....	26	17	14	15	14	38	136	278	157	58	55	99
26....	26	18	13	14	12	39	136	300	139	58	56	93
27....	22	17	14	14	14	35	127	360	130	53	50	83
28....	21	17	14	14	14	30	93	365	124	61	44	93
29....	23	16	14	14	14	27	72	370	121	55	38	146
30....	24	15	14	15	....	27	61	405	139	51	34	161
31....	25	....	14	15	....	29	....	460	....	47	32	....
Total	968	576	434	443.2	419	589	2021	8906	7416	2072	1062	2255
Mean.	31.2	19.2	14.0	14.3	14.4	19.0	67.4	287	247	66.8	34.3	75.2
Max..	51	26	16	18	16	39	187	460	500	118	56	191
Min...	21	15	11	9.2	12	12	19	63	121	47	26	26
Acre-ft.	1920	1140	861	879	831	1170	4010	17660	14710	4110	2110	4470

Total run-off for water year 1939-40=53,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cascade Creek Near Tacoma, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	20	20	5.1	3.3	4.2	4.2	14	112	164	36	36	36
2....	20	20	5.1	4.2	4.2	4.2	17	129	154	33	33	33
3....	20	18	5.1	4.2	4.2	4.2	18	115	173	33	31	31
4....	20	17	5.1	4.2	4.2	4.2	18	124	176	33	31	28
5....	20	17	5.1	4.2	4.2	4.2	18	179	175	31	31	31
6....	26	12	5.1	4.2	4.2	4.2	18	173	168	31	36	120
7....	36	12	4.2	4.2	4.2	4.2	22	124	137	26	53	103
8....	36	12	4.2	4.2	4.2	5.1	31	137	129	24	42	112
9....	36	10	4.2	4.2	4.2	5.1	36	168	112	24	36	99
10....	33	10	4.2	4.2	4.2	5.1	36	183	112	24	31	53
11....	33	10	4.2	4.2	4.2	5.1	31	192	112	22	31	112
12....	31	10	4.2	4.2	4.2	5.1	33	177	107	22	28	129
13....	31	9.3	4.2	4.2	4.2	5.1	36	145	115	22	26	115
14....	39	9.3	4.2	4.2	4.2	5.1	36	129	115	22	24	129
15....	47	9.3	4.2	4.2	4.2	5.1	31	129	90	22	24	76
16....	53	9.3	4.2	4.2	4.2	5.1	31	133	83	22	22	72
17....	53	9.3	4.2	4.2	4.2	5.1	31	115	80	22	22	66
18....	53	8.2	3.3	4.2	4.2	6.1	36	112	62	22	22	60
19....	36	8.2	3.3	4.2	4.2	8.2	42	163	53	20	20	53
20....	39	8.2	3.3	4.2	4.2	9.3	42	187	44	18	20	50
21....	36	7.1	3.3	4.2	4.2	12	53	204	39	20	20	47
22....	33	7.1	3.3	4.2	4.2	14	66	223	42	20	20	44
23....	31	7.1	3.3	4.2	4.2	14	72	198	44	20	20	39
24....	31	6.1	3.3	4.2	4.2	12	47	173	42	20	18	36
25....	31	6.1	3.3	4.2	4.2	14	42	137	44	18	18	39
26....	31	6.1	3.3	4.2	4.2	13	42	145	42	18	18	39
27....	28	6.1	3.3	4.2	4.2	12	60	173	39	22	22	69
28....	26	6.1	3.3	4.3	4.2	9.3	99	173	39	33	26	42
29....	28	6.1	3.3	4.2	....	10	112	188	36	72	36	44
30....	26	6.1	3.3	4.2	....	12	95	192	39	50	47	42
31....	24	....	3.3	4.2	....	12	....	173	....	47	47	....
Total	1007	303.1	123.0	129.3	117.6	238.3	1265	4905	2767	849	891	1949
Mean.	32.5	10.1	3.97	4.17	4.20	7.69	42.2	158	92.2	27.4	28.7	65.0
Max..	53	20	5.1	4.2	4.2	14	112	223	176	72	53	129
Min...	20	6.1	3.3	3.3	4.2	4.2	14	112	36	18	18	28
Acre-ft.	2000	601	244	256	233	473	2510	9730	5490	1680	1770	3870

Total run-off for water year 1938-39=28,860 acre-feet.

Discharge of Cascade Creek Near Tacoma, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	10	7.1	3.3	3.3	3.3	12	28	186	36	18	14
2....	32	12	6.1	3.3	3.3	3.3	9.3	39	182	31	17	12
3....	32	12	6.1	3.3	3.3	3.3	8.8	60	173	31	17	15
4....	27	12	6.1	3.3	3.3	3.3	10	103	164	26	14	14
5....	24	12	6.1	3.3	3.3	3.3	10	129	154	26	12	12
6....	22	12	6.1	3.3	3.3	3.3	9.3	145	137	26	12	12
7....	20	12	6.1	3.3	3.3	3.3	9.3	141	129	24	15	11
8....	20	12	6.1	3.3	3.3	3.3	10	141	112	24	12	11
9....	18	10	6.1	3.3	3.3	3.3	10	172	103	22	12	11
10....	20	10	6.1	3.3	3.3	3.3	12	193	95	22	12	11
11....	18	10	6.1	3.3	3.3	3.3	12	188	95	22	11	11
12....	18	12	5.1	3.3	3.3	3.3	17	207	95	22	11	11
13....	18	10	5.1	3.3	3.3	3.3	27	235	103	22	11	14
14....	17	12	5.1	3.3	3.3	3.3	33	221	107	20	11	12
15....	17	12	5.1	3.3	3.3	3.3	36	226	103	18	11	12
16....	16	9.3	5.1	3.3	3.3	4.2	22	207	87	20	11	12
17....	16	9.3	5.1	3.3	3.3	4.2	18	197	76	22	10	14
18....	14	9.3	5.1	3.3	3.3	4.2	24	164	69	22	10	120
19....	14	9.3	5.1	3.3	3.3	6.1	42	137	62	24	11	103
20....	14	8.2	5.1	3.3	2.5	7.1	60	137	60	24	12	80
21....	13	8.2	5.1	3.3	3.3	8.2	75	103	66	22	11	60
22....	13	8.2	5.1	3.3	3.3	10	90	103	60	20	11	80
23....	12	8.2	5.1	3.3	3.3	12	107	150	53	18	14	69
24....	12	8.2	4.2	3.3	3.3	17	90	187	53	18	20	60
25....	12	8.2	4.2	3.3	3.3	24	66	175	50	22	31	47
26....	10	7.1	3.3	3.3	3.3	24	56	187	44	24	33	44
27....	10	7.1	3.3	3.3	3.3	23	53	205	42	22	28	42
28....	10	7.1	3.3	3.3	3.3	17	44	182	39	26	22	44
29....	10	7.1	3.3	3.3	3.3	17	39	182	31	26	18	112
30....	10	7.1	3.3	3.3	....	14	31	187	42	22	18	112
31....	10	....	3.3	3.3	....	12	....	187	....	20	15	....
Total	533	291.9	157.5	102.3	94.9	253.5	1042.6	4918	2772	724	471	1182
Mean.	17.2	9.73	5.08	3.30	3.27	8.18	34.8	159	92.4	23.4	15.2	39.4
Max..	34	12	7.1	3.3	3.3	24	107	235	186	36	33	120
Min...	10	7.1	3.3	3.3	2.5	3.3	8.8	28	31	18	10	11
Acre-ft.	1060	579	312	203	188	503	2070	9750	5500	1440	934	2340

Total run-off for water year 1939-40=24,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lightner Creek Near Durango, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	5.3	3.4	....	....	....	1.0	36	40	9.0	2.0	1.3	1.7
2....	4.9	3.4	....	....	....	1.0	43	41	8.0	1.7	1.3	1.7
3....	4.5	3.4	....	....	....	1.0	70	37	8.0	1.6	1.3	1.5
4....	4.1	3.4	....	....	....	1.0	55	36	8.5	1.6	1.6	1.4
5....	4.1	3.4	....	....	....	1.0	46	40	8.5	1.8	1.4	1.3
6....	4.1	3.0	....	....	....	1.5	50	41	8.5	1.6	1.4	1.9
7....	5.7	4.9	....	....	....	1.5	40	37	8.5	1.6	1.3	1.5
8....	10	3.0	....	....	....	1.5	45	35	6.8	1.3	1.3	44
9....	3.7	3.0	....	....	....	1.6	55	35	4.9	1.3	1.3	1.5
10....	3.5	3.2	....	....	....	1.8	52	36	3.5	1.2	1.3	31
11....	3.2	3.5	....	....	....	2.0	40	34	3.2	1.2	1.2	30
12....	3.2	3.4	....	....	....	2.0	40	28	3.7	1.2	1.2	11
13....	3.2	3.0	....	....	....	2.0	43	21	3.9	1.2	1.2	3.7
14....	3.2	2.8	....	....	....	2.1	40	19	3.7	1.2	1.2	4.1
15....	3.2	2.6	....	....	....	2.6	35	19	3.2	1.2	1.3	3.2
16....	3.2	2.6	....	....	....	3.9	31	19	2.2	1.2	1.3	2.6
17....	3.2	2.6	....	....	....	5.7	28	19	2.1	1.2	1.3	2.6
18....	3.2	3.9	....	....	....	8.5	28	16	2.2	1.2	1.3	1.9
19....	3.2	3.5	....	....	....	14	35	17	2.2	1.2	1.2	1.9
20....	3.2	3.2	....	....	....	20	39	19	2.6	1.2	1.2	1.9
21....	3.2	2.8	....	....	....	23	47	19	2.6	1.2	2.0	1.9
22....	3.5	2.8	....	....	....	64	54	18	2.2	1.1	1.9	1.9
23....	3.5	2.8	....	....	....	72	41	17	3.2	1.1	1.9	1.9
24....	3.5	2.2	....	....	....	46	41	16	2.8	1.1	1.9	1.9
25....	3.5	2.0	....	....	....	39	37	15	2.1	1.1	1.9	1.9
26....	3.5	2.0	....	....	....	37	37	14	2.1	1.4	1.8	2.2
27.. ..	3.5	2.0	....	....	....	37	37	12	2.1	1.3	1.9	2.6
28....	3.5	2.0	....	....	....	32	40	12	2.2	1.3	3.5	2.6
29....	3.5	2.0	....	....	....	41	43	10	2.2	1.5	2.2	2.6
30....	3.5	2.0	....	....	....	36	40	10	2.2	1.5	1.9	2.6
31....	3.5	2.0	....	....	....	33	....	10	....	1.3	1.8	....
Total	120.1	87.8	46.5	31.0	28.0	535.7	1268	742	126.9	41.6	48.6	172.5
Mean.	3.87	2.93	1.50	1.00	1.00	17.3	42.3	23.9	4.23	1.34	1.57	5.75
Max..	10	4.9	....	....	....	72	70	41	9	2.0	3.5	44
Min...	3.2	2.0	....	....	....	1.0	28	10	2.1	1.1	1.2	1.3
Acre-ft.	238	174	92	61	56	1060	2520	1470	252	83	96	342

Total run-off for water year 1938-39=6,440 acre-feet.

Discharge of Lightner Creek Near Durango, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.7	4.3	2.0	....	....	2.0	23	27	11	2.2	4.8	3.7
2....	1.8	4.3	2.2	1.0	....	2.0	21	24	11	1.9	4.8	3.7
3....	2.1	4.1	2.0	....	....	2.5	22	31	9.8	1.9	4.5	3.7
4....	2.2	3.9	2.0	....	....	2.5	24	41	9.4	2.3	4.5	3.9
5....	2.1	4.3	2.1	....	....	3.0	24	42	10	4.8	4.5	3.3
6....	2.5	4.1	2.2	....	....	3.3	23	34	8.6	6.0	4.5	3.1
7....	3.3	3.9	2.2	....	....	3.3	21	33	7.0	5.0	4.3	3.1
8....	3.3	4.1	2.2	....	....	3.7	21	32	6.5	5.0	4.8	2.7
9....	3.3	4.8	2.4	....	....	6.8	23	28	6.0	3.5	4.1	2.4
10....	3.3	3.9	2.2	....	....	6.2	28	28	5.8	2.7	12	2.4
11....	3.9	3.5	2.0	....	....	5.0	28	28	5.2	2.5	9.4	2.7
12....	3.1	3.5	2.1	....	....	4.1	31	29	5.0	2.9	7.0	2.4
13....	3.3	3.5	2.2	....	....	4.5	38	30	4.5	2.9	2.7	2.4
14....	3.5	3.3	2.2	....	....	3.9	52	33	4.5	2.9	1.7	2.7
15....	3.5	3.2	2.3	....	....	4.1	60	30	4.1	2.7	1.5	2.4
16....	3.7	3.0	2.2	....	....	5.8	46	32	4.3	2.2	2.4	2.5
17....	4.1	3.0	2.0	....	....	6.8	34	33	4.5	2.0	5.0	4.5
18....	4.3	2.7	1.9	....	....	5.8	31	31	3.9	2.2	4.8	7.0
19....	3.9	2.5	2.0	....	....	6.0	37	26	3.9	2.2	5.0	3.3
20....	3.9	2.3	2.0	....	....	6.0	51	21	7.0	2.2	9.0	2.5
21....	4.5	2.3	2.0	....	....	7.4	60	18	4.8	2.3	14	2.3
22....	4.5	2.5	2.2	....	....	11	55	19	3.9	6.5	7.0	2.7
23....	3.9	2.3	2.0	....	....	20	50	20	3.5	5.8	26	2.7
24....	3.9	2.3	1.9	....	....	24	44	20	3.3	8.2	44	2.3
25....	4.8	2.5	1.8	....	....	28	37	18	3.1	9.4	18	2.0
26....	6.8	2.4	1.7	....	....	28	33	16	3.3	9.0	10	1.7
27....	5.5	2.1	1.6	....	....	35	32	14	3.5	6.8	7	1.5
28....	5.2	2.1	1.5	....	....	33	30	12	3.3	6.2	7	3.1
29....	4.3	2.2	1.5	....	....	27	35	12	2.5	4.1	5	1.8
30....	4.1	2.0	1.4	....	....	23	29	11	2.2	4.5	4.3	168
31....	4.1	....	1.4	....	....	23	....	11	....	4.3	4.1	....
Total	114.4	94.9	61.4	31.0	43.5	346.7	1043	784	165.4	127.1	247.7	252.5
Mean.	3.69	3.16	1.98	1.0	1.5	11.2	34.8	25.3	5.51	4.10	7.99	8.42
Max..	6.8	4.8	2.4	....	....	35	60	42	11	9.4	44	168
Min...	1.7	2.0	1.4	....	....	2.0	21	11	2.2	1.9	1.5	1.5
Acre-ft.	227	188	122	61	86	688	2070	1560	328	252	491	501

Total run-off for water year 1939-40=6,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Florida River Near Durango, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	47	26	12	4.2	5.6	64	189	214	25	22	35
2....	32	46	23	12	5.8	5.8	73	235	189	22	16	30
3....	46	41	20	13	6.4	5.6	86	223	199	26	13	25
4....	48	41	21	11	6.9	5.6	88	211	223	25	15	21
5....	47	43	20	11	6.9	5.2	86	303	211	22	15	22
6....	64	31	20	13	6.2	5.6	88	343	171	20	18	96
7....	84	38	20	13	6.0	5.6	79	253	154	18	29	90
8....	108	43	19	13	5.8	5.6	86	300	142	16	24	168
9....	96	37	19	12	5.4	5.8	98	374	130	15	19	156
10....	86	32	20	11	5.4	5.8	94	426	126	15	16	146
11....	84	29	22	10	5.8	5.7	84	418	121	15	12	223
12....	77	29	21	9	6.0	5.8	86	355	106	14	9.7	289
13....	79	27	18	9.4	6.0	6.1	88	307	98	11	9.7	214
14....	90	27	13	9.6	6.0	7.6	84	247	90	9.7	9.2	161
15....	110	32	14	10	5.6	10	77	220	79	10	7.0	137
16....	113	30	17	11	5.5	12	68	211	68	12	5.8	110
17....	110	30	10	11	6.0	16	65	174	64	11	5.5	100
18....	98	25	6.4	11	5.7	20	66	189	56	5.8	5.8	86
19....	90	28	11	10	5.7	22	75	314	49	6.6	6.6	73
20....	77	30	11	10	5.7	25	79	366	47	6.2	6.2	66
21....	72	28	10	11	5.6	40	102	366	45	11	6.6	58
22....	68	25	8.6	11	5.4	53	128	362	40	11	6.6	53
23....	62	20	7.0	10	5.5	77	144	328	37	5.1	7.0	52
24....	59	17	8.0	9.6	5.6	73	115	282	35	3.9	7.0	46
25....	59	18	8.2	9.2	5.7	70	100	214	34	3.9	5.8	42
26....	58	18	9.1	9.4	5.7	70	96	214	29	4.3	7.5	45
27....	53	19	10	10	5.6	68	104	244	28	6.2	17	60
28....	49	20	12	11	5.5	58	135	229	27	19	25	52
29....	48	21	11	10	....	56	181	250	25	36	65	46
30....	48	24	11	9.4	....	51	181	232	23	26	51	42
31....	45	....	12	6.6	....	53	....	217	....	23	42	....
Total	2194	896	458.3	329.2	161.6	855.4	2900	8596	2860	454.7	505.0	2744
Mean.	70.8	29.9	14.8	10.6	5.77	27.6	96.7	277	95.3	14.7	16.3	91.5
Max..	113	47	26	13	6.9	77	181	426	223	36	65	289
Min...	32	17	6.4	6.6	4.2	5.2	64	174	23	3.9	5.5	21
Acre-ft.	4350	1780	909	653	321	1700	5750	17050	5670	902	1000	5440

Total run-off for water year 1938-39=45,525 acre-feet.

Discharge of Florida River Near Durango, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	40	22	6.5	5.5	5.6	7.0	50	94	208	53	18	21
2....	37	22	6.4	6.2	5.9	6.8	50	110	194	45	16	18
3....	36	21	6.6	6.4	5.8	6.6	47	176	171	40	14	20
4....	34	22	7.3	6.2	5.6	6.6	45	282	154	36	11	21
5....	31	22	7.6	5.4	5.4	6.6	45	343	133	35	9.7	19
6....	28	22	7.6	5.2	5.3	6.4	46	307	119	35	11	16
7....	27	21	7.5	5.0	5.6	6.2	47	359	106	33	15	15
8....	33	22	7.8	5.0	5.5	6.3	45	343	100	28	15	12
9....	30	23	8.0	7.0	5.1	7.2	52	374	92	25	11	11
10....	28	20	8.2	8.0	5.5	8.0	52	398	81	21	9.2	8.8
11....	30	21	9.0	8.2	5.2	7.7	49	410	81	19	7.9	9.2
12....	29	22	8.4	8.4	5.0	6.3	52	414	79	18	7.9	11
13....	27	19	8.0	7.5	5.0	6.2	64	351	73	18	7.5	13
14....	27	18	8.0	5.3	5.4	7.0	82	418	68	16	9.2	12
15....	25	18	7.4	5.2	5.6	9.0	98	414	70	16	9.2	10
16....	23	19	8.4	5.1	5.6	10	94	366	66	18	9.2	9.2
17....	23	20	8.3	5.3	5.5	13	81	347	59	30	9.7	10
18....	22	18	8.2	5.6	5.5	16	73	282	56	47	8.4	79
19....	22	16	8.1	5.0	5.5	19	88	232	53	37	7.9	214
20....	21	14	7.9	5.0	5.5	21	130	214	49	31	11	168
21....	20	15	7.7	5.3	5.7	25	158	186	46	27	11	137
22....	19	10	8.1	5.2	5.7	29	174	179	48	30	19	192
23....	18	8.4	8.3	5.1	5.9	38	205	194	75	36	21	156
24....	19	6.2	7.0	5.2	6.0	43	186	244	56	32	29	124
25....	21	11	9.9	5.0	6.1	49	161	269	51	29	35	102
26....	29	6.0	6.0	5.2	6.3	54	149	279	47	27	39	84
27....	19	6.0	5.8	5.6	6.5	58	161	282	43	27	35	77
28....	22	6.2	5.0	5.4	6.8	55	135	256	41	29	31	86
29....	22	6.4	5.0	5.3	6.9	52	113	229	38	29	27	154
30....	19	6.5	5.2	5.5	....	50	102	220	51	28	23	197
31....	21	....	5.3	5.5	....	50	....	220	....	25	22	....
Total	802	483.7	228.5	178.8	165.0	685.9	2834	8792	2508	920	509.8	2006.2
Mean.	25.9	16.1	7.37	5.77	5.69	22.1	94.5	284	83.6	29.7	16.4	66.9
Max..	40	23	9.9	8.4	6.9	58	205	418	208	53	39	214
Min...	18	6.0	5.0	5.0	5.0	6.2	45	94	38	16	7.5	8.8
Acre-ft.	1590	959	453	355	327	1360	5620	17440	4970	1820	1010	3980

Total run-off for water year 1939-40=39,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Hesperus, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	9.7	8.8	5.0	3.0	4.0	39	105	37	17	5.9	4.5
2....	11	11	7.2	5.8	3.0	5.0	42	117	36	16	6.2	3.8
3....	11	10	6.9	6.4	2.9	7.0	51	107	60	14	7.6	4.0
4....	11	10	6.7	4.8	6.0	7.0	51	105	82	13	9.1	4.5
5....	11	9.7	6.6	3.0	5.0	4.2	51	134	75	12	9.1	6.7
6....	11	9.1	6.4	5.8	3.8	2.0	56	139	66	11	13	8.2
7....	12	8.5	6.0	7.0	10	3.4	55	129	70	11	11	8.2
8....	14	8.2	4.8	6.0	15	4.5	60	145	63	11	9.4	11
9....	12	8.2	4.6	5.8	13	4.6	73	164	58	9.4	9.4	11
10....	11	7.6	4.1	6.5	3.0	7.0	70	174	55	9.1	7.9	26
11....	11	7.6	4.0	6.0	3.5	9.6	56	155	53	9.1	7.6	62
12....	11	7.6	3.6	5.0	4.5	11	59	124	51	8.8	6.7	53
13....	12	7.3	3.2	5.0	6.0	15	62	97	52	8.2	6.2	41
14....	13	6.7	4.0	5.0	8.0	18	58	82	37	8.2	6.7	37
15....	13	6.7	6.0	5.6	9.2	13	50	75	27	8.5	7.9	34
16....	14	7.0	5.4	5.0	8.2	10	44	56	22	7.6	7.0	31
17....	15	7.3	4.5	3.0	8.2	7.5	40	45	26	6.7	6.4	24
18....	17	7.3	4.6	3.2	6.5	7.5	40	66	23	6.4	5.6	22
19....	18	7.3	4.7	4.5	5.0	8.0	51	119	23	7.6	5.1	20
20....	13	7.3	6.0	6.1	3.0	9.5	63	110	23	7.3	4.3	19
21....	13	7.3	5.9	12	2.0	12	92	101	22	7.0	4.3	18
22....	12	7.3	5.8	10	1.0	16	122	101	21	6.7	4.0	17
23....	13	7.5	5.6	9	2.0	21	112	88	20	6.2	4.0	16
24....	12	9.1	6.0	7.5	3.0	24	79	51	20	5.9	5.4	14
25....	11	12	7.0	8.5	2.6	26	63	34	20	6.2	5.4	14
26....	11	9.5	6.0	9.8	3.0	31	79	32	19	5.9	4.8	14
27....	9.7	8.5	6.0	11	4.0	30	88	36	18	6.2	4.0	14
28....	9.7	8.0	5.3	8.0	3.8	30	101	37	18	7.3	5.6	13
29....	11	7.0	4.9	6.0	....	30	105	37	17	7.0	5.4	11
30....	10	6.6	6.0	7.2	....	30	90	35	17	6.4	4.8	10
31....	10	....	7.0	7.8	....	31	....	34	....	6.2	4.3	....
Total	374.4	246.9	173.6	201.3	148.2	438.8	2002	2834	1131	272.9	204.1	571.9
Mean.	12.1	8.23	5.60	6.49	5.29	14.2	66.7	91.4	37.7	8.80	6.58	19.1
Max..	18	12	8.8	12	15	31	122	174	82	17	13	62
Min...	9.7	6.6	3.2	3	1	2	39	32	17	5.9	4	3.8
Acre-ft.	743	490	344	399	294	870	3970	5620	2240	541	405	1130

Total run-off for water year 1938-39=17,050 acre-feet.

Discharge of La Plata River at Hesperus, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.1	5.6	5.1	....	....	4.8	36	50	114	20	12	14
2....	9.1	5.6	5.1	3.9	....	5.0	34	62	106	24	12	14
3....	9.1	5.4	5.1	....	4.9	5.0	32	88	104	23	11	14
4....	9.1	5.4	5.1	....	....	5.0	30	132	109	22	10	14
5....	7.9	5.4	5.1	....	....	5.0	30	152	99	21	9.7	13
6....	7.3	5.4	5.1	....	....	5.0	30	142	92	22	10	12
7....	7.0	5.4	4.5	....	....	5.0	36	161	82	18	10	11
8....	7.6	5.6	4.5	....	....	5.0	39	150	67	16	8.4	11
9....	6.7	6.2	4.5	....	....	5.0	42	150	31	14	7.0	11
10....	6.7	6.4	4.5	....	....	5.0	44	161	24	14	7.0	11
11....	5.9	6.4	4.5	....	....	5.3	44	147	27	14	5.3	10
12....	5.6	6.2	4.3	....	....	5.3	60	139	29	12	4.7	9.7
13....	5.4	6.2	4.3	....	....	5.3	68	145	27	12	4.7	7.9
14....	5.4	6.2	4.3	....	....	5.3	103	170	28	12	7.0	6.0
15....	5.4	6.2	4.3	....	....	5.3	122	196	24	11	6.6	4.7
16....	5.4	5.9	3.6	4.6	....	5.6	90	189	20	12	6.0	4.4
17....	5.4	5.9	3.6	....	....	5.8	68	177	21	11	6.0	5.6
18....	5.4	5.6	3.6	....	....	6.0	68	152	21	11	6.0	19
19....	5.6	5.4	3.6	....	....	6.2	107	118	33	11	5.3	45
20....	6.2	5.4	3.6	....	....	6.6	167	100	45	9.2	6.0	36
21....	6.2	5.1	3.7	....	4.8	7.3	164	74	42	8.8	7.5	30
22....	6.2	5.1	3.7	....	....	8.2	150	79	44	8.8	7.9	28
23....	5.9	5.1	3.7	....	....	8.5	137	82	42	8.8	6.0	29
24....	5.6	5.1	3.8	....	....	9.7	103	91	40	9.7	8.8	30
25....	5.9	5.4	3.8	....	....	14	84	84	36	9.7	8.4	27
26....	8.8	5.4	3.8	....	....	39	84	94	34	11	7.9	26
27....	7.0	5.4	3.8	....	....	41	86	111	32	11	9.2	25
28....	6.4	5.4	3.8	....	....	37	71	106	30	12	11	28
29....	6.2	5.4	3.8	....	....	36	60	114	28	12	12	35
30....	5.9	5.4	3.8	....	....	36	52	116	28	12	12	52
31....	5.9	....	3.8	....	....	35	....	124	....	11	12	....
Total	205.3	168.6	129.8	133.3	139.2	378.2	2241	3856	1459	424.0	257.4	583.3
Mean.	6.62	5.62	4.19	4.30	4.80	12.2	74.7	124	48.6	13.7	8.30	19.4
Max..	9.1	6.4	5.1	....	....	41	167	196	114	24	12	52
Min...	5.4	5.1	3.6	....	....	4.8	30	50	20	8.8	4.7	4.4
Acre-ft.	407	334	257	264	276	750	4440	7650	2890	841	511	1160

Total run-off for water year 1939-40=19,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Colorado-New Mexico Line for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.6	3.6	14	8.6	10	6	36	71	0	0	1.1	0
2....	1.1	6.3	12	9.0	6.0	10	40	58	0	0	0.7	0
3....	1.7	5.9	11	12	7.0	20	74	28	0	0	1.2	0
4....	1.4	5.5	8.6	8.2	13	9.0	104	38	36	0	0.2	0
5....	0.8	5.2	8.6	6.6	9.5	7.0	61	59	58	0.3	0.1	0
6....	1.1	4.8	8.6	11	7.5	11	50	76	67	1.4	0	2.6
7....	20	4.4	9.0	9.0	16	11	41	34	59	2.3	0	2.3
8....	68	3.6	9.0	6.3	20	11	38	17	55	2.0	0	1.2
9....	9.0	3.6	8.2	7.4	18	12	51	42	50	1.8	0	0.1
10....	7.0	4.2	8.2	7.8	11	14	58	48	44	1.5	0	43
11....	6.6	4.6	8.2	6.3	6.0	17	56	61	44	0.8	0	50
12....	5.2	6.1	8.6	6.3	9.0	21	35	61	41	0.5	0	15
13....	4.8	6.3	7.8	6.3	12	37	28	57	40	0.4	0	8.6
14....	4.2	8.2	9.4	6.3	14	50	27	59	5.0	0.4	0	4.4
15....	3.0	7.4	12	6.3	15	40	21	61	0	0.8	0	7.8
16....	2.6	8.2	10	6.3	16	34	18	61	0	0.3	0	4.0
17....	3.4	8.2	9.8	5.2	17	31	16	42	0	0.4	0	2.3
18....	2.8	8.2	9.4	4.9	16	32	12	38	0	1.1	0	1.2
19....	2.3	9.4	8.6	10	12	38	9.0	97	0	1.1	0	1.1
20....	2.5	8.6	9.4	20	7	58	11	95	0	0.9	0	0.9
21....	2.5	8.6	9.8	21	4	79	31	77	0	0.9	0	1.0
22....	2.5	8.6	9.0	17	3	107	46	71	0	0.9	0	1.7
23....	2.5	8.6	8.6	12	5	85	43	63	0	0.9	0	1.1
24....	2.5	15	9.4	11	8	66	38	5.9	0.7	0.7	0	0.6
25....	2.5	19	11	10	9	43	22	0	0.6	0.5	0	0.4
26....	2.5	14	11	13	8	37	39	0	0.7	0.1	0	1.2
27....	2.3	12	9.8	16	7	35	55	0	0.8	0.3	0	1.8
28....	2.2	12	8.6	17	4	42	55	0	0.8	23	1.5	0.7
29....	2.2	11	7.0	10	....	53	66	0	0.3	3.8	0	0.2
30....	2.3	12	7.8	10	....	53	52	0	0	1.7	0	0.2
31....	2.8	....	9.8	14	....	47	....	0	....	1.8	0	....
Total	174.9	243.1	292.2	314.8	290	1116	1233	1319.9	502.9	50.6	4.8	153.4
Mean.	5.64	8.10	9.43	10.2	10.4	36.0	41.1	42.6	16.8	1.63	0.15	5.11
Max..	68	19	14	21	20	107	104	97	67	23	1.5	50
Min...	0.6	3.6	7.0	4.9	3	6	9	0	0	0	0	0
Acre-ft.	347	482	580	624	575	2210	2450	2620	997	100	10	304

Total run-off for water year 1938-39=11,300 acre-feet.

Discharge of La Plata River at Colorado-New Mexico State Line for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.1	0.1	5.2	6.1	12	21	15	16	85	1.2	1.1	1.4
2....	0.1	0.2	4.8	6.1	20	20	19	16	83	0	1.1	0.7
3....	0.1	0.5	3.4	7.0	12	16	16	19	73	0	0.7	0.6
4....	0.1	0.2	3.4	4.6	12	16	16	50	98	0	0.2	0.7
5....	0.2	0	3.6	7.6	10	14	17	71	90	0	0	0.5
6....	0.5	0.1	3.6	6.5	7.8	14	14	49	85	0	0.1	0
7....	0.2	0	3.4	5.3	11	14	12	56	76	0	22	0
8....	0.7	0	3.4	10	9.8	14	9.8	66	64	0	0.8	0
9....	0.7	1.8	2.6	11	7.8	16	12	67	14	0	1.2	0
10....	0.1	1.0	3.2	11	6.1	15	12	73	0	0	0.2	0
11....	0.1	0	4.2	10	6.3	14	14	66	0	0	0.2	0.7
12....	0.2	0	3.6	12	8.2	12	19	74	0	0	0.2	0.5
13....	0.1	0	2.6	11	5.0	12	30	77	0	0.4	0.2	0
14....	0	0	3.4	6.0	7.4	11	55	119	0	1.8	0.2	0
15....	0.1	0	3.2	5.0	7.8	12	61	115	0	3.0	0.7	0
16....	0.6	0	4.4	3.4	5.9	12	42	85	0	4.2	0.5	0.9
17....	0.1	0.2	5.0	4.0	5.0	14	61	82	0	1.8	0.5	2.8
18....	0.1	1.3	5.5	5.0	4.8	15	39	100	0	2.8	0.1	21
19....	0.1	2.2	5.2	7.0	5.5	16	33	18	0	3.8	0.1	14
20....	0	1.7	4.6	9.2	5.2	19	48	1.2	1.6	4.0	0.3	61
21....	0	1.8	4.2	10	5.7	21	44	0	18	3.6	16	6.1
22....	0	1.2	4.6	7.2	8.2	21	56	1.2	24	4.0	10	5.2
23....	0	2.3	5.0	9.2	12	18	77	0	23	3.4	1.2	5.2
24....	0	2.5	5.0	11	16	18	58	0	23	14	186	3.4
25....	0	1.4	6.8	10	13	18	39	0	21	5.9	109	4.0
26....	0.7	2.0	4.4	10	27	20	32	0	18	2.2	6.6	4.0
27....	0.2	1.7	6.3	9.5	20	21	48	0	17	3.4	4.0	4.6
28....	0	1.7	6.1	8.4	20	22	46	0	16	1.7	2.8	4.2
29....	0	2.2	5.8	10	21	20	32	0	16	1.2	2.5	5.0
30....	0	3.4	5.5	9.6	....	18	22	87	14	1.2	1.5	40
31....	0	....	8.0	10	....	15	....	91	....	1.5	1.4	....
Total	5.1	29.5	140.0	252.7	312.5	509	998.8	1399.4	859.6	65.1	371.4	186.5
Mean.	0.16	0.98	4.52	8.15	10.8	16.4	33.3	45.1	28.7	2.10	12.0	6.22
Max..	0.7	3.4	8.0	12	27	22	77	119	98	14	186	61
Min...	0	0	2.6	3.4	4.8	11	9.8	0	0	0	0	0
Acre-ft.	10	59	278	501	620	1010	1980	2780	1700	129	737	370

Total run-off for water year 1939-40=10,170 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Red Mesa, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.2	2.2	....	....	....	1.5	22	16	0.6	0	0	0
2....	2.2	2.6	....	....	....	1.5	22	16	0.4	0	0	0
3....	2.0	2.7	....	....	....	1.5	22	15	0.2	0	0	0
4....	2.0	2.9	....	....	....	1.5	36	13	0	0	0	0
5....	2.0	3.1	....	....	....	1.5	26	12	0	0	0	0
6....	2.0	3.5	....	....	....	1.5	22	10	0	0	0	0
7....	5.0	3.3	....	....	....	2	19	9.3	0	0	0	0
8....	10	2.7	....	....	....	2	18	6.9	0	0	0	0
9....	4.0	2.4	....	....	....	2	22	3.8	0	0	0	0
10....	3.6	2.2	....	....	....	2	22	3.5	0	0	0	0
11....	3.1	2.2	....	*1.0	....	2	19	3.6	0	0	0	2.0
12....	2.0	2.0	....	....	....	3	19	2.6	0	0	0	1.0
13....	2.0	1.8	....	....	....	3	18	2.7	0	0	0	0
14....	2.0	1.8	....	....	....	4	18	2.2	0	0	0	0
15....	2.0	1.8	....	....	....	4.6	16	3.6	0	0	0	0
16....	2.0	1.7	....	....	....	11	13	4.8	0	0	0	0
17....	2.0	1.6	....	....	....	16	12	3.5	0	0	0	0
18....	2.0	2.2	....	....	....	10	12	3.1	0	0	0	0
19....	2.0	2.0	....	....	....	22	13	2.6	0	0	0	0
20....	2.2	2.2	....	....	....	38	13	2.2	0	0	0	0
21....	2.2	2.7	....	....	....	58	15	2.2	0	0	0	0
22....	2.6	3.1	....	....	....	54	15	2.2	0	0	0	0
23....	3.1	3.1	....	....	....	52	18	2.2	0	0	0	0
24....	3.1	3.0	....	....	....	32	12	1.4	0	0	0	0
25....	3.1	3.0	....	....	....	22	8.3	1.0	0	0	0	0
26....	3.0	2.5	*1.5	....	....	22	7.6	0.8	0	0	0	0
27....	3.0	2.5	....	....	*1.5	20	8.3	0.8	0	0	0	0
28....	3.0	2.0	....	....	....	20	13	0.8	0	0	0	0
29....	2.9	2.0	....	....	....	20	14	0.7	0	0	0	0
30....	2.6	2.0	....	....	....	19	16	0.7	0	0	0	0
31....	2.2	....	....	....	....	27	....	0.7	....	0	0	....
Total	87.1	72.8	46.5	31.0	35.0	476.6	511.2	149.9	1.2	0	0	3.0
Mean.	2.81	2.43	1.50	1.00	1.25	15.4	17.0	4.84	0.04	0	0	0.10
Max..	10	3.5	....	....	....	58	36	16	0.6	0	0	2.0
Min...	2.0	1.6	....	....	....	1.5	7.6	0.7	0	0	0	0
Acre-ft.	173	144	92	61	69	945	1010	297	2.4	0	0	6.0

Total run-off for water year 1938-39=2,800 acre-feet.

*Discharge measurement.

Discharge of Cherry Creek Near Red Mesa, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	....	....	....	2.0	7.8	22	0.9	0	0	0
2....	0	0	....	....	....	2.0	8.4	22	0.5	0	0	0
3....	0	0	....	....	....	2.0	7.4	22	0.5	0	0	0
4....	0	0	....	....	....	2.0	9.7	24	0	0	0	0
5....	0	0	....	....	....	2.0	14	26	0	0	0	0
6....	0	0	....	....	....	2.5	12	25	0	0	0	0
7....	0	0	....	....	....	2.5	14	24	0	0	0	0
8....	0	0	....	....	....	2.5	13	22	0	0	0	0
9....	0	0	....	....	....	2.5	14	16	0	0	0	0
10....	0	0	....	....	....	2.5	15	16	0	0	0	0
11....	0	0	....	....	....	3.0	12	14	0	0	0	0
12....	0	0	....	....	....	3.0	13	12	0	0	0	0
13....	0	0	....	....	....	3.2	13	9.4	0	0	0	0
14....	0	0	....	....	....	2.8	18	7.8	0	0	0	0
15....	0	0	0.8	....	....	2.4	25	7.8	0	0	0	0
16....	0	0	....	....	....	2.2	26	7.8	0	0	0	0
17....	0	0	....	....	....	4.2	23	8.7	0	0	0	0
18....	0	0	....	....	....	5.0	20	5.8	0	0	0	0
19....	0	0	....	....	....	7.4	19	5.0	0	0	0	1.6
20....	0	0.2	....	....	....	12	24	4.2	0	0	0	4.5
21....	0	0.5	....	....	....	10	29	3.8	0	0	0	0.5
22....	0	0.5	....	....	....	9.7	32	4.5	0	0	0	0
23....	0	0.5	....	....	....	9.4	34	3.8	0	0	0	0
24....	0	0.5	....	....	....	9.0	34	2.8	0	0	5.6	0
25....	0	0.5	....	....	....	9.0	30	1.7	0	0	80	0
26....	0	0.5	....	....	....	9.4	27	1.6	0	0	2.0	0
27....	0	0.5	....	....	....	10	26	1.4	0	0	0.6	0
28....	0	0.5	....	....	....	10	25	1.2	0	0	0	0
29....	0	0.5	....	....	....	9.7	25	1.1	0	0	0	0.2
30....	0	0.5	....	....	....	7.4	24	1.0	0	0	0	3.2
31....	0	....	....	....	....	7.1	....	1.0	....	0	0	....
Total	0	5.2	24.8	24.8	29.0	168.4	594.3	325.4	1.9	0	88.2	10.0
Mean.	0	0.17	0.80	0.80	1.00	5.43	19.8	10.5	0.06	0	2.85	0.33
Max..	0	0.5	....	....	....	12	34	26	0.9	0	80	4.5
Min...	0	0	....	....	....	2	7.4	1.0	0	0	0	0
Acre-ft.	0	10	49	49	58	334	1180	645	3.8	0	175	20

Total run-off for water year 1939-40=2,520 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.7	1.1	....	....	....	....	7.8	31	12	1.5	0.9	0.9
2....	1.5	1.1	....	....	....	....	9.5	33	14	1.8	0.6	0.7
3....	1.4	0.8	....	....	....	....	12	31	16	2.0	0.8	0.4
4....	1.3	1.1	....	....	....	....	13	29	16	1.9	0.8	0.2
5....	1.3	1.3	....	....	....	....	12	35	15	1.7	0.8	0.5
6....	1.6	0.6	....	....	....	....	12	37	11	1.5	1.1	2.1
7....	1.6	0.5	....	....	....	....	11	30	11	1.3	1.2	6.3
8....	2.8	0.7	....	....	....	....	13	32	10	1.2	0.8	6.3
9....	1.9	....	....	....	....	....	17	37	9.5	1.1	0.6	7.8
10....	1.8	....	....	....	....	....	15	41	9.5	1.1	0.5	12
11....	1.9	....	....	....	....	....	14	36	10	0.9	0.4	22
12....	1.8	....	....	....	....	....	14	32	8.4	0.7	0.3	17
13....	2.0	....	....	....	....	....	15	30	7.8	0.4	0.2	11
14....	2.1	....	....	....	....	....	14	30	6.9	0.8	0.2	6.0
15....	2.4	....	....	....	....	....	12	26	6.3	1.6	0.3	4.0
16....	2.6	....	....	....	....	....	9.5	17	5.4	1.4	0.2	2.8
17....	2.6	....	....	....	....	....	8.4	12	4.8	0.9	0	2.0
18....	2.2	....	....	....	....	....	11	15	4.2	0.8	0	1.4
19....	2.1	....	....	....	....	Mar. 21	16	20	3.6	0.6	0	1.1
20....	2.0	....	....	....	....	to 31	21	22	3.2	0.3	0	0.9
21....	1.9	....	....	....	....	10	29	21	2.8	0.4	0	0.7
22....	1.8	....	....	....	....	11	30	22	3.0	0.6	0	0.4
23....	1.7	....	....	....	....	14	27	20	3.0	0.6	0	0.4
24....	1.5	....	....	....	....	14	18	15	3.0	0.3	0	0.5
25....	1.2	....	....	....	....	8.4	17	14	2.8	0.4	0	0.8
26....	1.2	....	....	....	....	8.9	23	15	2.4	0.4	0	1.1
27....	1.1	....	....	....	....	6.9	27	17	2.0	0.8	0	2.0
28....	1.0	....	....	....	....	5.1	32	15	1.7	2.2	1.1	2.0
29....	1.0	....	....	....	....	5.1	32	16	1.6	2.2	1.1	1.9
30....	1.0	Nov. 1	....	....	....	5.1	29	11	1.8	2.4	1.1	1.5
31....	1.0	to 8	....	....	....	6.0	....	12	....	1.6	1.0	....
Total	53.0	7.2	....	....	....	94.5	521.2	754	208.7	35.4	14.0	116.7
Mean.	1.71	0.90	....	....	....	8.59	17.4	24.3	6.96	1.14	0.45	3.89
Max..	2.8	1.3	....	....	....	14	32	41	16	2.4	1.2	22
Min...	1.0	0.5	....	....	....	5.1	7.8	11	1.6	0.3	0	0.2
Acre-ft.	105	14	....	....	....	187	1030	1500	414	70	28	231

Total run-off for period=3,579 acre-feet.

Discharge of East Mancos River Near Mancos, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.0	1.6	1.1	....	....	0.8	6.6	17	31	4.8	0.9	0.8
2....	1.1	1.6	1.1	....	....	0.8	5.4	23	27	4.2	1.0	0.7
3....	1.1	1.5	1.1	....	....	0.8	5.4	30	23	3.8	0.8	0.6
4....	1.1	1.5	1.1	....	....	1.0	4.2	42	22	3.6	0.6	0.6
5....	1.1	1.5	1.4	....	....	1.0	4.5	44	17	3.4	0.6	0.4
6....	1.1	1.5	1.1	....	....	1.0	4.2	45	15	2.6	1.0	0.2
7....	1.1	1.3	1.1	....	....	1.0	4.8	47	14	2.4	1.8	0.4
8....	1.1	1.2	1.1	....	....	1.0	5.7	41	13	1.9	1.1	0.4
9....	1.1	1.4	1.1	....	....	1.5	5.7	38	12	1.8	0.9	0.4
10....	1.0	1.3	1.0	....	....	1.5	6.3	36	9.5	1.7	0.8	0.4
11....	0.9	1.2	1.0	....	....	1.5	6.6	38	10	1.6	1.2	0.4
12....	0.7	1.1	0.8	....	....	2.0	9.5	34	11	1.6	1.0	0.4
13....	0.7	1.1	0.6	....	....	2.0	15	38	10	1.4	0.8	0.9
14....	0.8	1.1	0.6	....	....	2.2	27	59	11	1.1	0.6	0.5
15....	0.9	0.9	0.5	....	....	2.4	35	70	8.9	1.4	0.7	0.4
16....	1.1	0.8	0.5	....	....	2.2	25	64	6.9	1.1	0.6	0.4
17....	1.1	0.9	0.5	....	....	2.8	17	68	6.6	1.6	0.6	0.4
18....	1.1	0.9	0.5	....	....	3.0	16	50	7.2	2.0	0.5	10
19....	1.1	0.9	0.5	....	....	3.8	29	32	10	1.6	0.5	17
20....	1.1	0.9	0.5	....	....	5.4	40	25	9.5	1.2	0.8	11
21....	1.0	0.9	0.5	....	....	5.7	45	23	8.4	1.2	0.6	6.0
22....	1.0	1.1	0.5	....	....	9.5	45	25	8.9	1.1	0.8	6.3
23....	1.1	1.3	0.5	....	....	12	45	24	7.8	1.5	0.5	4.2
24....	1.1	1.2	0.5	....	....	14	33	29	7.2	1.5	1.5	3.4
25....	1.3	1.1	0.5	....	....	17	26	29	6.3	1.0	3.4	2.4
26....	1.9	1.1	0.5	....	....	16	26	35	6.3	0.7	5.1	1.9
27....	1.5	1.1	0.5	....	....	14	25	37	5.7	1.8	3.6	1.7
28....	1.3	1.1	0.5	....	....	9.5	22	34	5.1	2.1	2.2	1.5
29....	1.4	1.0	0.5	....	....	7.2	20	29	5.4	1.7	1.4	2.4
30....	1.3	1.0	0.5	....	....	6.3	17	27	6.0	1.5	1.0	4.5
31....	1.5	....	0.5	....	....	6.9	....	31	....	1.4	0.7	....
Total	34.7	35.1	22.7	15.5	20.3	155.8	576.9	1164	341.7	60.3	37.6	80.6
Mean.	1.12	1.17	0.73	0.5	0.7	5.03	19.2	37.5	11.4	1.95	1.21	2.69
Max..	1.9	1.6	1.4	....	....	17	45	70	31	4.8	5.1	17
Min...	0.7	0.8	0.5	....	....	0.8	4.2	17	5.1	0.7	0.5	0.2
Acre-ft.	69	70	45	31	40	309	1140	2310	678	120	75	160

Total run-off for water year 1939-40=5,050 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.4	0.4	....	....	....	....	5.8	20	5.2	0.3	0.1	0.1
2....	0.5	0.3	....	....	....	....	5.8	21	4.2	0.2	0.1	0.1
3....	0.5	0.2	....	....	....	....	9.6	18	3.7	0.1	0.1	0
4....	0.2	0.2	....	....	....	....	11	17	3.5	0.3	0.2	0
5....	0.2	0.2	....	....	....	....	8.4	17	3.3	0.2	0.2	0
6....	0.2	0.2	....	....	....	....	7.7	19	3.2	0.2	0.2	0.2
7....	0.2	0.2	....	....	....	....	6.5	15	3.5	0.2	0.3	0.4
8....	0.3	0.2	....	....	....	....	9.0	14	3.7	0.3	0.2	0.3
9....	0.2	0.1	....	....	....	....	12	14	2.8	0.2	0.2	0.1
10....	0.1	....	....	....	....	....	11	14	2.3	0.2	0.2	0.3
11....	0.1	....	....	....	....	....	11	11	2.0	0.1	0.2	2.6
12....	0.2	....	....	....	....	....	11	8.4	1.8	0.1	0.2	3.3
13....	0.2	....	....	....	....	....	12	6.0	1.6	0.1	0.1	1.9
14....	0.2	....	....	....	....	....	13	5.6	1.6	0.1	0.1	1.0
15....	0.2	....	....	....	....	....	11	3.0	1.0	0.3	0.2	0.8
16....	0.3	....	....	....	....	....	11	4.0	0.5	0.3	0.2	0.6
17....	0.3	....	....	....	....	....	9.6	4.4	0.4	0.2	0.1	0.5
18....	0.4	....	....	....	....	Mar. 20	9.6	4.0	0.4	0.2	0.1	0.3
19....	0.4	....	....	....	....	to 31	13	4.0	0.4	0.2	0.2	0.2
20....	0.3	....	....	....	....	3.5	17	3.8	0.4	0.1	0.1	0.1
21....	0.1	....	....	....	....	3.5	19	3.5	0.5	0.1	0.1	0.1
22....	0.1	....	....	....	....	3.3	23	3.5	0.6	0.1	0.1	0.1
23....	0.2	....	....	....	....	4.4	22	3.7	0.6	0.1	0.1	0.1
24....	0.2	....	....	....	....	4.6	16	3.5	0.7	0.1	0	0.2
25....	0.2	....	....	....	....	6.2	15	5.0	0.6	0.1	0	0.3
26....	0.2	....	....	....	....	5.4	16	6.2	0.5	0.1	0	0.3
27....	0.2	....	....	....	....	4.0	18	5.8	0.4	0.1	0	0.3
28....	0.3	....	....	....	....	3.8	23	5.6	0.4	0.2	0.2	0.3
29....	0.3	....	....	....	....	3.7	21	5.2	0.3	0.3	0.2	0.2
30....	0.4	Nov. 1	....	....	....	3.7	19	5.2	0.3	0.2	0.2	0.2
31....	0.4	to 9	....	....	....	4.6	....	5.4	....	0.2	0.2	....
Total	8.0	2.0	....	....	....	50.7	397.0	275.8	50.4	5.5	4.4	14.9
Mean.	0.26	0.22	....	....	....	4.22	13.2	8.90	1.68	0.18	0.14	0.50
Max..	0.5	0.4	....	....	....	6.2	23	21	5.2	0.3	0.3	3.3
Min...	0.1	0.1	....	....	....	3.3	5.8	3.0	0.3	0.1	0	0
Acre-ft.	16	4	....	....	....	101	787	547	100	11	9	30

Total run-off for period 1938-39=1,605 acre-feet.

Discharge of Middle Mancos River Near Mancos, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.2	0.1	0.2	0.1	0.1	0.1	2.2	19	9.6	2.3	0.8	0.8
2....	0.2	0.1	0.2	0.1	0.1	0.1	2.2	21	8.7	2.3	0.7	0.8
3....	0.2	0.1	0.2	0.1	0.1	0.1	2.3	27	7.9	2.0	0.5	0.8
4....	0.2	0.1	0.1	0.1	0.1	0.1	2.3	36	6.5	1.9	0.5	0.7
5....	0.2	0.1	0.1	0.1	0.1	0.1	3.5	41	5.4	1.9	0.5	0.6
6....	0.2	0.1	0.1	0.1	0.1	0.2	3.5	36	5.2	2.3	0.6	0.6
7....	0.2	0.1	0.1	0.1	0.1	0.2	3.2	37	4.6	1.9	1.0	0.5
8....	0.3	0.1	0.1	0.1	0.1	0.2	3.3	29	4.0	1.8	0.8	0.4
9....	0.3	0.1	0.1	0.1	0.1	0.2	3.7	32	3.5	1.4	0.7	0.4
10....	0.3	0.3	0.1	0.1	0.1	0.2	4.0	27	2.8	1.3	0.6	0.3
11....	0.4	0.2	0.1	0.1	0.1	0.2	3.8	24	3.8	1.1	0.6	0.3
12....	0.3	0.2	0.1	0.1	0.1	0.2	6.0	28	6.5	1.1	0.6	0.3
13....	0.3	0.2	0.1	0.1	0.1	0.2	9.3	28	6.7	1.1	0.6	0.4
14....	0.3	0.2	0.1	0.1	0.1	0.2	15	31	5.8	1.0	0.5	0.3
15....	0.3	0.2	0.1	0.1	0.1	0.2	17	29	4.4	1.0	0.4	0.3
16....	0.2	0.1	0.1	0.1	0.1	0.3	13	25	4.4	1.0	0.5	0.3
17....	0.1	0.1	0.1	0.1	0.1	0.3	11	30	6.7	2.3	0.5	0.3
18....	0.1	0.1	0.1	0.1	0.1	0.3	12	28	6.5	1.9	0.5	0.6
19....	0.1	0.1	0.1	0.1	0.1	0.4	19	19	6.5	1.5	0.5	1.6
20....	0.1	0.1	0.1	0.1	0.1	0.4	27	14	6.2	1.3	0.4	1.0
21....	0.1	0	0.1	0.1	0.1	0.5	31	11	5.6	1.1	0.4	0.4
22....	0.1	0.1	0.1	0.1	0.1	1.0	32	11	5.2	1.0	0.8	0.5
23....	0.1	0.1	0.1	0.1	0.1	1.5	34	10	5.0	0.9	0.8	0.3
24....	0.1	0.1	0.1	0.1	0.1	2.0	34	9.6	4.4	1.0	1.4	0.3
25....	0.2	0.1	0.1	0.1	0.1	2.6	28	8.7	3.8	1.0	1.5	0.3
26....	0.2	0.1	0.1	0.1	0.1	2.6	31	8.7	3.5	0.6	2.2	0.2
27....	0.2	0.1	0.1	0.1	0.1	2.6	31	10	3.2	1.0	1.4	0.2
28....	0.1	0.1	0.1	0.1	0.1	2.5	25	11	2.6	0.9	1.1	0.2
29....	0.1	0.2	0.1	0.1	0.1	1.9	20	11	2.5	0.7	1.0	0.3
30....	0.1	0.2	0.1	0.1	....	1.8	17	10	2.5	0.7	0.8	0.8
31....	0.1	....	0.1	0.1	....	2.2	....	9.8	....	0.7	0.8	....
Total	5.9	3.80	3.40	3.1	2.9	25.4	446.3	671.8	154.0	42.0	24.0	14.8
Mean.	0.19	0.13	0.11	0.1	0.1	0.82	14.9	21.7	5.13	1.35	0.77	0.49
Max..	0.4	0.3	0.2	....	....	2.6	34	41	9.6	2.3	2.2	1.6
Min...	0.1	0	0.1	....	....	0.1	2.2	8.7	2.5	0.6	0.4	0.2
Acre-ft.	12	7.5	6.7	6.1	5.8	50	885	1330	305	83	48	29

Total run-off for water year 1939-40=2,770 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.5	7.8	....	....	....	3.0	32	111	72	10	7.2	6.3
2....	6.7	8.5	....	....	....	3.0	32	113	67	9.9	6.3	5.4
3....	7.2	8.3	....	....	....	3.0	50	99	68	11	5.6	4.7
4....	6.9	8.3	....	....	....	3.0	55	91	73	10	5.6	4.3
5....	7.6	8.5	....	....	....	3.0	42	103	67	9.0	5.8	5.4
6....	8.3	8.3	....	....	....	3.0	41	111	55	8.8	6.7	14
7....	8.3	7.2	....	....	....	3.0	35	90	51	8.3	7.2	24
8....	12	7.0	....	....	....	3.0	40	91	47	7.6	6.3	26
9....	11	7.0	....	....	....	3.0	50	107	46	7.4	5.8	20
10....	10	7.0	....	....	....	3.0	47	117	45	7.6	5.2	20
11....	11	7.0	....	....	....	3.0	40	117	45	7.2	4.5	49
12....	10	7.0	....	....	....	3.0	46	111	41	6.5	4.1	53
13....	10	7.0	....	*3.0	....	4.0	48	99	40	6.3	3.9	38
14....	10	7.0	....	....	....	4.0	44	93	37	6.5	4.1	26
15....	11	7.0	....	....	....	4.0	36	90	32	7.2	4.1	21
16....	11	6.5	....	....	....	5	32	78	26	6.7	3.3	17
17....	12	6.5	....	....	....	7	33	67	24	5.8	3.1	15
18....	11	6.5	....	....	....	9	36	67	20	5.6	2.7	13
19....	10	6.5	....	....	....	12	47	88	17	5.2	2.7	12
20....	10	6.5	....	....	....	16	56	99	16	4.5	2.5	12
21....	9.9	6.5	....	....	....	20	76	97	14	4.3	2.9	11
22....	9.6	6.5	....	....	....	30	93	101	14	4.5	3.3	10
23....	9.3	6.5	....	....	....	39	88	95	14	4.3	3.5	9.9
24....	8.8	6.5	....	....	....	35	68	83	13	4.1	3.1	9.3
25....	8.3	6.5	....	....	....	32	68	66	12	4.1	3.1	10
26....	8.1	6.5	....	....	....	29	79	61	11	4.3	3.1	11
27....	8.1	6.5	....	....	....	24	86	68	11	4.3	4.1	14
28....	8.1	6.5	....	....	....	22	103	66	11	8.1	6.5	13
29....	7.8	6.5	....	....	....	21	120	72	11	12	7.6	12
30....	7.8	6.5	....	....	....	20	113	70	11	11	6.7	11
31....	7.8	6.5	....	....	....	29	....	70	....	8.5	7.2	....
Total	284.1	210.4	155	93	84	398	1736	2791	1011	220.6	147.8	497.3
Mean.	9.16	7.01	5.0	3.0	3.0	12.8	57.9	90.0	33.7	7.12	4.77	16.6
Max..	12	8.5	....	....	....	39	120	117	73	12	7.6	53
Min...	6.5	....	....	....	....	....	32	61	11	4.1	2.5	4.3
Acre-ft.	564	417	307	184	167	789	3440	5540	2010	438	293	986

Total run-off for water year 1938-39=15,140 acre-feet.

*Discharge measurement.

Discharge of West Mancos River Near Mancos, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	10	5.6	5.2	....	....	....	17	78	153	28	7.6	7.4
2....	9.3	5.6	5.6	....	....	....	16	99	146	25	7.2	9.3
3....	8.8	5.6	5.2	....	....	....	15	117	133	23	6.0	8.5
4....	8.3	5.2	5.4	....	....	....	18	142	131	20	5.2	8.1
5....	8.1	5.2	5.2	....	....	....	24	142	117	20	4.9	7.4
6....	7.4	5.2	4.1	....	....	....	24	140	113	18	5.2	6.9
7....	7.4	5.2	4.5	....	....	....	21	158	105	17	6.7	6.5
8....	8.1	4.9	4.5	....	....	....	19	144	101	16	6.0	5.8
9....	8.3	5.4	3.9	....	....	....	19	142	93	16	5.4	5.6
10....	7.6	5.2	3.9	....	....	....	20	142	83	15	4.9	5.8
11....	7.4	4.7	4.3	....	....	....	21	137	84	14	5.8	5.6
12....	7.2	4.7	3.7	....	....	....	26	137	88	13	5.6	5.6
13....	6.9	4.7	4.1	....	....	....	37	137	90	12	5.2	6.9
14....	6.5	4.7	4.1	....	....	Mar. 16	56	165	91	12	4.7	6.9
15....	6.5	4.5	2.9	....	....	to 31	68	170	84	12	4.3	6.5
16....	6.5	4.5	....	....	....	7.6	57	175	74	12	4.3	6.0
17....	6.7	4.5	....	....	....	7.4	45	208	70	17	4.1	6.3
18....	6.3	4.5	....	....	....	8.1	47	182	66	15	4.3	54
19....	6.3	4.7	....	....	....	9.0	76	142	62	13	4.3	68
20....	6.3	4.5	....	....	....	10	111	122	59	12	5.2	54
21....	6.3	4.5	....	....	....	12	126	109	54	11	6.3	34
22....	5.8	4.1	....	....	....	20	124	111	51	10	10	37
23....	5.6	4.1	....	....	....	19	126	105	47	11	10	33
24....	5.6	4.1	....	....	....	20	126	111	42	11	18	26
25....	6.0	4.1	....	....	....	23	120	111	38	10	25	20
26....	8.1	3.7	....	....	....	26	128	126	35	8.8	26	17
27....	6.3	4.1	....	....	....	26	120	144	34	12	16	17
28....	5.6	4.1	....	....	....	24	91	144	29	12	12	15
29....	5.4	4.3	....	....	....	18	81	135	28	11	9.9	20
30....	5.4	4.5	Dec. 1	....	....	17	70	140	33	9.3	8.3	33
31....	5.8	....	to 15	....	....	19	....	149	....	8.5	7.6	....
Total	215.8	140.7	66.6	....	....	266.1	1849	4264	2334	444.6	256.0	543.1
Mean.	6.96	4.69	4.44	....	....	16.6	61.6	138	77.8	14.3	8.26	18.1
Max..	10	5.6	5.6	....	....	26	128	208	153	28	26	68
Min...	5.4	3.7	2.9	....	....	7.4	15	78	28	8.5	4.1	5.6
Acre-ft.	428	279	132	....	....	528	3670	8460	4630	882	508	1080

Total run-off for period=20,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mancos River Near Towaoc, Colo., for Year Ending Sept. 30, 1939.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.5	6.4	....	....	8.0	17	83	72	0.2	0	0	0
2....	8.5	6.7	....	....	8.0	16	80	70	0	0	0	0
3....	11	7.5	....	....	8.0	17	83	72	1.2	0	0	0
4....	13	8.5	....	....	8.0	18	147	62	0	0	0	0
5....	10	6.7	....	....	8.0	17	141	54	0	0	0	0
6....	12	5.8	....	....	10	13	99	49	0	0	0	0
7....	10	5.2	....	....	10	16	84	51	0	0	0	0
8....	228	4.3	....	....	10	19	77	43	0	0	0	0
9....	51	4.9	....	....	10	24	81	37	0	0	0	9.0
10....	22	5.8	....	....	10	29	89	30	0	0	0	94
11....	14	5.8	....	....	10	32	81	35	0	0	0	242
12....	11	5.2	....	....	10	32	74	35	0	0	0	74
13....	11	4.9	....	*8.4	10	66	71	41	0	0	0	31
14....	12	3.8	....	....	10	123	66	24	0	0	0	16
15....	11	2.8	....	....	10	143	61	23	0	0	0	7.0
16....	12	4.3	....	....	12	125	55	14	0	0	0	4.9
17....	7.0	4.9	....	....	12	147	47	12	0	0	0	3.2
18....	8.0	5.8	....	....	12	139	46	6.7	0	0	0	2.4
19....	8.0	4.6	....	....	12	117	46	3.2	0	0	0	1.6
20....	7.5	4.3	....	....	12	117	54	2.2	0	0	0	0.6
21....	8.5	5.8	....	....	12	119	59	1.4	0	0	0	0
22....	7.5	6.4	*16	....	12	127	75	3.8	0	0	0	0
23....	7.5	5.8	....	....	16	120	85	4.9	0	0	0	0
24....	7.0	3.4	....	....	18	99	81	4.0	0	0	0	0
25....	6.4	4.3	....	....	18	92	68	7.5	0	0	0	0
26....	6.4	3.4	....	....	20	80	66	3.4	0	0	0	3.6
27....	6.1	4.6	....	....	23	77	67	3.2	0	0	0	4.9
28....	5.8	3.8	....	....	17	80	65	3.2	0	0	0	5.8
29....	5.5	3.8	....	....	....	76	67	3.2	0	0	0	2.2
30....	6.1	3.8	....	....	....	90	77	3.6	0	0	0	1.2
31....	5.8	....	....	....	....	84	....	3.8	....	....	....	....
Total	549.1	153.3	341	248	336	2271	2275	778.1	1.4	0	0	503.4
Mean.	17.7	5.11	11	8.0	12.0	73.3	75.8	25.1	0.05	0	0	16.8
Max..	228	8.5	....	....	....	147	147	72	1.2	0	0	242
Min...	5.5	2.8	....	....	....	13	46	1.4	0	0	0	0
Acre-ft.	1090	304	676	492	666	4500	4510	1540	3	0	0	998

Total run-off for water year 1938-39=14,779 acre-feet.

*Discharge measurement.

Discharge of Mancos River Near Towaoc, Colorado, for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.0	3.5	3.4	3.0	6.0	41	27	45	58	0	0	4.6
2....	0.6	3.8	3.2	4.6	7.2	36	30	40	58	0	0	4.0
3....	0	3.8	3.0	6.4	6.4	33	30	48	58	0	0	4.6
4....	0	3.8	3.2	5.5	5.9	33	36	90	46	0	0	6.0
5....	0	3.8	3.2	4.9	5.4	32	40	160	39	0	0	8.2
6....	0.6	4.0	3.2	4.0	4.5	39	45	120	28	0	0	6.0
7....	1.0	4.0	3.2	2.0	5.1	30	46	130	23	0	2.4	4.0
8....	1.6	4.3	3.2	3.0	4.8	26	40	140	21	0	35	1.0
9....	3.0	4.0	3.2	3.6	4.6	38	38	145	17	0	13	0.1
10....	4.9	4.0	3.0	4.6	5.5	49	36	145	15	0	4.4	0
11....	3.2	4.6	3.2	4.0	6.1	45	38	127	14	0	2.4	0
12....	2.2	4.9	3.6	5.5	6.4	36	40	122	12	0	.1	0
13....	1.6	4.9	3.0	6.1	6.1	22	54	118	10	0	0	0
14....	2.0	5.2	3.0	3.6	5.8	14	78	110	9.9	0	0	0
15....	2.0	4.6	2.4	2.6	7.0	16	114	117	8.2	0	0	0
16....	2.0	4.0	2.6	4.2	7.0	19	118	118	7.1	0	0	0
17....	2.0	4.0	3.6	4.2	5.5	22	90	118	5.4	0	0	0
18....	1.0	3.4	4.0	4.5	3.4	24	67	178	5.0	0	0	35
19....	1.0	3.2	4.6	4.2	5.5	22	78	208	3.6	0	0	96
20....	1.2	3.4	2.6	4.3	5.5	23	125	125	2.4	0	0	73
21....	1.2	3.6	1.6	5.0	7.0	23	168	90	2.4	0	18	46
22....	1.2	3.6	1.4	4.0	7.0	24	150	84	1.2	0	16	857
23....	1.2	3.4	2.4	5.0	7.0	28	170	72	0.1	0	11	53
24....	1.2	3.4	2.4	5.4	7.0	31	145	58	0.1	0	5.0	35
25....	1.5	3.4	4.0	4.9	9.5	32	100	58	0	0	114	26
26....	1.5	3.4	3.6	4.8	12	34	75	54	0	0	32	25
27....	1.8	3.6	2.2	4.7	20	32	80	60	0	174	24	30
28....	2.0	3.6	3.0	4.4	25	36	88	64	0	8.8	13	22
29....	2.5	4.0	2.6	5.1	31	35	64	60	0	2.0	11	28
30....	3.0	3.6	3.0	5.2	....	30	52	56	0	0.1	8.2	56
31....	3.5	....	3.4	5.5	....	26	....	53	....	0	6.4	....
Total	51.5	116.8	94.0	138.8	239.2	931	2262	3113	444.4	184.9	315.9	1420.5
Mean.	1.66	3.89	3.03	4.48	8.25	30.0	75.4	100	14.8	5.96	10.2	47.4
Max..	4.9	5.2	4.6	6.4	31	49	170	208	58	174	114	857
Min...	0	3.2	1.4	2.0	3.4	14	27	40	0	0	0	0
Acre-ft.	102	232	186	275	474	1850	4490	6170	881	367	627	2820

Total run-off for water year 1939-40=18,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

CHAPTER XI.

ANNUAL REPORTS
OF
IRRIGATION DIVISION ENGINEERS
FOR
1939-1940

ANNUAL REPORT—IRRIGATION DIVISION NO. 1 FOR THE YEAR 1939

November 15, 1939.

Mr. M. C. Hinderlider
State Engineer
State Capitol Building
Denver, Colorado

Dear Sir:

Herein is presented a general summary of the administrative activities with which this office is charged, together with tabulated reports of the several water districts in Division No. 1, and other pertinent data, for the year 1939.

During the winter of 1938-1939, no administrative order was in effect in the Division, which condition prevailed until May 3, 1939, at which time water was demanded in Water District No. 1 for the Riverside Irrigation District, for direct irrigation, the call being based upon priority of date May 31, 1907. The use of water until May 3rd was unrestricted, with but little being used, due to the wet fall weather which gave the entire division a very good irrigation and raised the stages of most reservoirs to the safe limit.

There were 503,729 acre-feet of water in storage in Division No. 1 on November 1, 1938, as compared with 194,280 acre-feet on November 1, 1939, of which amounts the City of Denver owns approximately 160,000 acre-feet for municipal uses.

After May 3rd, the administrative orders were changed often, with a call for priority of date January 18, 1879, prevailing on May 15th, and after several more changes, the order was October 5, 1871 on June 10th, at which time the streams were very low and very unusual conditions were experienced since the streams are normally expected to reach peak flow during June.. The very low stage of all streams was caused principally by a sub-normal snow fall, together with a deficient water content, and this condition was augmented by the lack of seasonal precipitation.

The lowest administrative order on the South Platte River during the summer was for priority of date May 15, 1863, although several districts were limited to dates senior to the general order because of deficient supply within the district so affected.

Direct irrigation has continued all fall, and at this time there is little relief in sight and the outlook for the coming season is not encouraging, as all streams are at extremely low stage, as is the reservoir storage and snow supply.

The temperatures have been generally above normal, while precipitation figures show a deficiency of more than six inches since January 1, 1939.

High temperatures early in March caused many streams to rise abnormally and some damage resulted from flood waters. The most serious damage occurred on Box Elder Creek, where three reservoirs were lost, these being the Moonshine, Ireland Nos. 1 and 5. The Box Elder Creek flood is covered in detail by the writer in a separate report.

The shortage of water is reflected by the crop production, which probably does not average more than 70 per cent normal in the Division, and in some sections may be as low as 50 per cent. Had it not been for the unusually large amount of storage water available, there is little doubt that a nearly complete crop failure would have resulted.

The shortage of snow and water content thereof is shown by the comparatively light delivery of the transmountain diversion ditches in Division No. 1, which diverted an aggregate of 82,425 acre-feet in 1939, as compared with 115,883 acre-feet in 1938.

Practically all of the ditches in District No. 48 were equipped with Parshall rating flumes and new headgates before the beginning of the irrigation season. This required considerable time and attention of the administrative officers, and it became necessary to employ additional deputies to assist in the administration of this district during the season.

Many demands were made upon this office during the past season for more efficient administration, and many requests were denied, due to lack of funds which precluded the employment of sufficient personnel to adequately cope with conditions such as an extremely dry season creates. However, the decretal orders have been as justly administered as our ability and personnel would permit.

Numerous minor controversies came up during the season, which were generally settled amicably. Due to the protracted drought, Water District No. 23 was particularly hard pressed for water, there being very little storage water available to that district, and the services of a Special Deputy to assist the Water Commissioner were required until late in the fall, and while there were several violations of the water orders, the cooperation of most users was prevalent.

I wish to take this opportunity to express my appreciation for the assistance of the personnel of the State Engineer's Office, and the general spirit of cooperation of the Water Commissioners and their deputies in the various water districts of this Division.

Very truly yours,

J. E. WHITTEN,
Special Deputy State Engineer, South Platte.

MOFFAT TUNNEL SUMMARY

	Diverted					
Year	East Portal Ac. Ft.	Eldorado Springs Ac. Ft.	Eldorado Equiv. E. Portal Less 2½% Ac. Ft.	To So. Boulder Creek Ac. Ft.	Clear Creek Credits Ac. Ft.	11-Mile Equiv. Clear Cr. Plus 5% Ac. Ft.
1937	21,673	17,048	21,131	4,083	12,787	13,426
1938	44,201	36,618	43,652	4,860	16,466	17,289
1939	31,134	30,121	30,356	85	10,065	10,568

	Stored in				Other Sales or Exchange	
	11-Mile Exchange Ac. Ft.	Cheesman Exchange Ac. Ft.	Divert. at Intake Exch. Ac. Ft.	Stored in Ralston Res. Ac. Ft.	Ac. Ft.	To
1937	8,106	3,590	442	1,126	4,004	So. Boulder Ralston Creeks
1938	9,372	6,989	0	20,152	0	
1939	4,375	0	3,778	20,056	150	Erie and Louisville

STATE ENGINEER'S OFFICE

ACRE FEET IN STORAGE—DIVISION NO. 1, 1939

J. E. WHITTEN, Special Deputy

Dist.	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	
1	101,102	100,000	109,957	124,524	131,277	93,976	68,638	33,996	11,317	0	0	
2	56,165	60,000	68,216	77,289	83,255	65,899	39,557	15,619	5,629	1,054	2,037	
3	88,606	90,200	97,733	107,794	116,830	114,736	104,392	69,474	24,619	9,773	12,877	
4	43,456	46,600	57,469	59,175	65,333	58,562	48,637	17,345	6,133	4,021	3,002	
5	25,909	26,000	26,160	26,641	30,137	26,946	22,942	12,678	4,734	3,057	2,868	
6	22,479	21,000	18,096	19,184	23,230	26,361	22,271	16,827	12,463	10,175	9,915	
7	11,000	9,000	8,000	7,500	7,598	15,739	13,700	11,797	9,677	8,120	7,581	
8	18,000	18,000	18,000	16,000	16,500	16,300	16,600	16,121	15,848	16,392	17,161	
9	5,000	5,000	4,896	5,801	7,350	5,716	3,045	1,439	459	65	134	
23	140,841	147,200	148,936	158,362	161,130	161,208	162,940	152,811	147,280	141,663	136,787	
64	93,567	111,200	112,049	118,839	116,517	90,703	70,593	37,584	14,689	2,488	1,918	
	606,125	634,200	669,512	721,109	759,157	676,146	573,315	385,691	252,848	196,808	194,280	TOTALS
	166,903	168,453	168,274	175,858	179,579	183,913	185,580	179,279	171,895	165,275	160,809	CITY OF DENVER
	439,222	465,747	501,238	545,251	579,578	492,233	387,735	206,412	80,953	31,533	33,471	BAL. FOR IRRIGATION

STATE ENGINEER'S OFFICE

TRANSMOUNTAIN DIVERSIONS

1939

IRRIGATION DIVISION NO. 1

J. E. WHITTEN, Special Deputy

Name of Diversion	Source	From Dist.	To Dist.	First Day	Last Day	Ac. Ft. Total
Moffat Tunnel—East Portal	Colorado River	51	6	May 4	Nov. 15	31,134
Grand River Ditch	Colorado River	51	3	May 5	Sept. 9	18,561
Laramie Poudre Tunnel	Laramie River	48	3	May 2	Aug. 15	13,063
Skyline Ditch	Laramie River	48	3	Apr. 29	Sept. 23	14,860
Deadman Ditch	Deadman Creek, trib. Laramie River	48	3	May 9	June 18	874
East Hoosier Pass	Blue River	36	23	May 15	June 29	320
West Hoosier Pass	Blue River	36	23	May 15	June 17	158
Berthoud Pass Ditch	Colorado River	51	7	June 3	Aug. 25	883
Cameron Pass Ditch	North Platte River	47	3	May 19	July 9	255
Michigan Ditch	North Platte River	47	3	May 15	Aug. 5	2,285
Boreas Pass Ditch	Blue River, trib. of Colorado River	36	23	July 17	Aug. 5	32
					Total	82,425

CROP REPORT

IRRIGATION DIVISION NO. 1

1939

District No.	First Day Water Used from Natural Stream	Last Day Water Used from Natural Stream	No. Acre Ft. Used for Season	Total Acres That Can Be Irrigated	Alfalfa
1	11- 1-38	10-31-39	248,741	189,190	36,322
2	11- 1-38	10-31-39	357,054	224,510	40,235
3	4-23-39	10-31-39	341,566	389,160	54,415
4	4-22-39	10-10-39	162,807	141,240	40,500
5	12- 2-38	10-31-39	96,482	106,950	28,735
6	5- 1-39	10- 9-39	92,004	195,335	29,240
7	4- 1-39	10-31-39	129,072	119,005	13,666
8	11- 1-38	10-31-39	91,840	110,257	11,176
9	11- 1-38	10-31-39	24,974	14,942	3,060
23	3-10-39	10-31-39	......	48,000	0
47	4-20-39	10- 1-39	252,000	70,000	0
48	4-22-39	6-19-39	22,851	5,340	0
64	11- 1-38	10-31-39	255,315	176,212	27,432
65	4-15-39	11-10-39	13,430	8,441†	667
Totals			2,088,136	1,798,582	285,448

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†5,000± acres in Nebraska.

District No.	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes
1	24,772	59,995	154	116	1,332
2	10,972	82,398	302	9,900	8,620
3	4,642	68,848	1,759	3,344	28,070
4	590	69,100	1,560	320	4,300
5	5,715	37,105	625	625	800
6	63,165	60,265	623	1,089	90
7	1,664	49,791	3,018	13,720	247
8	2,046	13,837	135	1,261	20
9	2,800	6,069	81	204	1,973
23	37,000	0	0	0	0
47	66,109	0	0	0	0
48	4,176*	0	0	0	0
64	30,269	46,540	160	786	2,458
65	293	183	54	52	37
Totals	254,213	494,131	8,471	31,417	47,947

*2,730 tons of hay measured.

District No.	Sugar Beets	Beans	Peas or Corn	Cabbage	Other Crops
1	13,490	14,390	....	46	21,257
2	28,877	19,537	477	2,310	12,958
3	36,610	6,315	228	1,417	58,512
4	7,885	1,950	840	170	10,655
5	10,520	100	640	930	4,645
6	5,111	333	232	86	12,263
7	2,128	324	264	984	684
8	438	200	564	50	455
9	130	10	285	85	245
23	0	0	0	0	0
47	0	0	0	0	0
48	0	0	0	0	0
64	21,662	1,898	Corn 6,668	Cane 5,906	7,650
65	243	Corn 1,317	....	....	532
Totals	127,094	46,374	10,198	11,984	129,856

District No.	Total Irrigated	Superintendence	Repairs	Improvements
1	171,874	.....	.....	.....
2	216,586	$39,940	$35,699	$22,175
3	264,160		Not Reported	
4	137,870	15,700	1,000	12,250
5	90,440	10,240	9,400	.....
6	172,497	12,940	15,072	1,100
7	86,490	15,150	16,295	6,575
8	30,182	6,005	34,178	11,983
9	14,942	5,037	2,363	320
23	37,000	.....	.....	.....
47	66,109	.....	.....	.....
48	4,176	.....	.....	1,000
64	151,431	27,297	39,684	36,456
65	‡3,378	725	1,150	180
Totals	1,447,135	.....	.....	.....

‡1,873 acres in Nebraska.

Diversions From

LARAMIE RIVER AND TRIBUTARIES IN COLORADO

for Year 1939

State Engineer's Office

	Name of Ditch	Source of Supply	Days Run	Acre-Feet
1	Bliler-Boswell	Laramie River	33½	483.10
2	Brown	Nunn Creek	39¼	633.92
3	Brown	Porter Creek	(No water used)	
4	Ben Warren and Enlargement	Laramie River	(No water used)	
5	Brinker	Brinker Creek	12½	17.09
6	Comet	McIntyre Creek	5¼	32.78
7	Cabin	Stubb Creek	36	187.81
8	Detro No. 1	Forrester Creek	41½	369.47
9	Detro No. 2	Laramie River	(No water used)	
10	Davy	Deadman Creek	34½	525.95
11	Forester	Brown Creek	41¼	233.92
12	Forester No. 1	Forester Creek	40	274.37
13	Forester No. 2	Forester Creek	5¾	6.68
14	Ferguson	Laramie River	(No water used)	
15	Frenchwoman	Frenchwoman Creek	18	14.24
16	Grant	Roaring Creek	(No water used)	
17	Grace and Enlargement	Grace Creek	53½	1,227.42
18	Hills	Laramie River	35	384.88
19	Hills Upper	Laramie River	39¾	499.38
20	Homestead	McIntyre Creek	35¼	587.01
21	Homestead No. 1	Big Jenkins Creek	40¼	302.33
22	Homestead No. 2	Little Jenkins Creek	40¼	185.81
23	Hance	Grace Creek	44¼	913.31
24	Jim	Jimmy Creek	47	316.48
25	*Jim and Enlargement	Jimmy Creek	11½	160.27
26	Jimmy Creek	Laramie River	42	885.53
27	LaGarde and Enlargement	La Garde Creek	44¾	680.56
28	LaGarde No. 1	La Garde Creek	(No water used)	
29	Lamb	McIntyre Creek	40½	1,347.76
30	Link No. 1	Laramie River	36⅓	590.85
31	Link No. 2	Link Creek	14¼	107.49
32	Lone Tree	Lone Tree Creek	32	89.25
33	Lanning, Chas. E.	Laramie River	(No water used)	
34	Lanning and Springer	Laramie River	(No water used)	
35	Mansfield and Enlargement	Laramie River	44¼	1,349.65
36	Mansfield No. 2	Laramie River	44⅓	988.18
37	Martin No. 1	Laramie River	42	1,224.25
38	Martin No. 2 and Enlargement	Laramie River	44⅓	1,533.68
39	McIntyre	McIntyre Creek	36½	478.14
40	McIntyre Lakes	McIntyre Creek	...	....
41	Nellie	McGuire Creek	37½	300.56
42	Ollie	Jimmy Creek	39⅓	115.87
43	Pasche	LaGarde Creek	43½	901.45
44	Parker	Laramie River	39¼	598.17
45	Pine Creek and Enlargement	Pine Creek	35¾	296.92
46	Stuck	Stuck Creek	40⅙	635.62
47	Smith-Brown	Laramie River	36¾	414.01
48	Stuart No. 1	Stuart Creek	32¼	266.55
49	Stuart No. 2	McIntyre Creek	(No water used)	

50	Stubb	Stubb Creek	32¼	157.41
51	Schnitger	LaGarde Creek	42	416.61
52	Slough	Slough Creek	(No water used)	
53	Trollope	Trollope Creek	34¼	35.32
54	Talmadge	McIntyre Creek	29½	161.81
55	Timothy	Laramie River	26	337.68
56	Thompson	British Creek	(Water to Nellie Ditch Measured through it also)	
57	Warren	Laramie River	41⅓	403.94
58	Ward No. 1	Jimmy Creek	28⅓	90.72
59	Ward No. 2	Jimmy Creek	8⅓	30.04
60	Wright	Laramie River	4	14.32
61	Yelton	Laramie River	40	1,042.44
	Total—Meadowland Diversions			22,851.00
	Transmountain			
62	Laramie-Poudre Tunnel		47½	9,001.00
63	Skyline		48¼	17,488.00
64	Deadman	Deadman Creek	40	874.00
	Total to and including June 19th			40,214.00
				*124.57
	GRAND TOTAL			40,089.43

This total includes 204 acre feet stored in the Johnson Reservoir through Grace Creek Enlarged Ditch.

*Credit this ditch with 62.82 day second feet, as this amount of water has been charged through Jimmy Creek ditch out of Laramie River, leaving a charge of 18 day second feet against this ditch.

ANNUAL REPORT—IRRIGATION DIVISION NO. 1

FOR THE YEAR 1940

Denver, Colorado, November 26, 1940.

Mr. M. C. Hinderlider
State Engineer
State Capitol Building
Denver, Colorado

Dear Sir:

Following is a report on irrigation activities and administrative procedure in Irrigation Division No. 1 for the year of 1940.

In contrast to the season of 1939, when the storage for irrigation uses amounted to 579,578 acre feet on May 1st, the season of 1940 was extremely short of storage water, there being only 242,892 acre feet available on May 1st this year. The usual June increase in storage was lacking, due to low stream runoff and sub-normal precipitation. Snowfall during the winter was light, which was reflected in low runoff, both from the streams and transmountain diversions, the latter diverting a total of 75,241 acre feet in 1940 as compared to 82,423 acre feet in 1939, and the year of 1940 includes the diversion of 9555 acre feet by the new Jones Pass tunnel, owned by the City of Denver, which began operating May 10, 1940.

Excessive temperatures prevailed during July and August, accompanied by deficient precipitation, which damaged crops and ranges severely. The high temperature of 113° in Sedgwick on July 24th is only 2° below the all-time record for the state.

Despite the lack of storage and with low stream runoff prevalent, crops in the South Platte basin were much better than expected. Hay crops in the mountain areas were about 60 to 75 per cent normal, while in the lower South Platte the hay crop was nearly normal. The sugar beet crop was much better than anticipated, being benefited by timely rains in late August, and during September, when the precipitation was generally 200 per cent normal. The yield of dry land crops was much below normal, but in the irrigated sections crops were from 60 to 100 per cent normal. Severe hail storms occurred in Denver and a few other sections on the 5th and 13th of September, and in Denver one of the most severe hail storms of record fell on August 22nd. Losses of crops and property were estimated at more than $200,000 due to these storms. Little precipitation fell during October, and beet harvest was carried on under ideal weather conditions. The precipitation from January 1st to November 20th was 1.50 inches below normal in the Denver area.

Storms in early November stopped most all direct irrigation and storage in Barr Lake began on November 7th and in Jackson Lake and North Sterling on November 10th. A few reservoirs in District No. 3 and in some other sections began storing water on November 1st and shortly thereafter.

Many complaints were received, as is to be expected during times of water shortage, but every effort was made by the water commissioners and this office to eliminate as nearly as possible any administrative action which would violate the rights of any appropriator and, while reasonable success was attained, considering the many complications involved and the extensiveness of the Division, it is desirable that steps be taken to further increase the efficiency of the administrative department and, to that end, adequate appropriations of money should be made.

The administration of the Laramie River decree, as handed down by the U. S. Supreme Court and the District Court of Larimer County, presented a situation slightly different from that which has been prevalent heretofore, in that users (Columbine and Bob Creek Canal, Lost Lakes, Wright, Grant and British Creek Ditches) which had not previously been allowed to divert any water under the former interpretation of the decree by the U. S. Supreme Court, were allowed to divert this year in conformity with the ruling of the District Court of Larimer County, and those appropriators who are without a decreed water right in Water District No. 48 find themselves in a position, at least temporarily, superior to holders of decreed rights.

The headgates of the Laramie River ditches in Colorado were closed June 16th and remained closed for the remainder of the season. The ditches were patrolled by special deputies and the water commissioner of District No. 48 for the duration of the season. No serious violations were reported, although some difficulty arose relative to use of stock and domestic water, and this was later taken care of by agreement of the interested parties.

The hay crop in the Laramie was somewhat shorter than last year, 2518 tons of hay being harvested in 1940 as compared to 2730 tons in 1939. It should be remembered, however, that in 1939 the Laramie River headgates were closed on June 18th, and little success was attained in preventing further diversions of water, while in 1940, through the cooperation of the water users, little if any opposition was met by this department in keeping diversions closed after June 16th, at which time the total amount of 39,750 acre feet of water, allotted to the users of Laramie River water in Colorado, had been diverted through the rating flumes of the appropriators.

Work is progressing on the Colorado-Big Thompson transmountain diversion, but completion and operation of the project will require considerable time.

The City of Greeley has initiated plans for a storage reservoir on the North Fork of the Cache la Poudre River, and it is expected that construction will soon begin.

There was no major construction or failure of dams in the Division during the year; however, the Badger Creek Dam was breached in the interest of safety.

The City of Denver has constructed Parshall rating flumes in the South Platte River above and below Eleven Mile Canon Reservoir, to be used in more accurately determining the inflow and outflow at the reservoir. The lower flume is a 15-foot concrete structure with 6-foot side walls, while the flume above the reservoir is a 20-foot timber structure with 6-foot side walls. Both flumes are equipped with automatic recording gages.

The outlook for the coming year is not especially encouraging in this Division, although somewhat better than at this time last year, as several storms during November have materially increased the water supply in this Division, and storage of water is about one month advanced over last year.

I wish to express my appreciation to all who have assisted in the administration of the decretal water orders in this Division the past year.

Very respectfully submitted,

J. E. WHITTEN,
Special Deputy State Engineer.

TRANSMOUNTAIN DIVERSIONS

IRRIGATION DIVISION NO. 1 AND INTER-DIVISION 1940

Name of Diversion	Ac. Ft.	From Dist.	To Dist.	Source of Supply	First Day	Last Day
Deadman	607	48	3	Deadman Creek, Trib. Laramie River	May 6	June 17
Laramie-Poudre Tunnel	7,409	48	3	Laramie River	Apr. 23	June 16
Skyline	7,215	48	3	Laramie River	May 3	June 16
Sand Creek	1,191	48	48	Sand Creek	May 12	June 17
Lost Lake	132	48	3	Laramie River	May 8	June 1
Michigan	1,775	47	3	No. Platte River	May 11	Aug. 6
Cameron Pass	235	47	3	No. Platte River	May 27	July 11
Grand River	17,196	51	3	Colorado River Trib.	May 5	Aug. 18
Columbine	78	48	3	Laramie River	May 19	June 17
Moffat Tunnel	28,813	51	6–7	Colorado River	Apr. 25	Oct. 15
Bob Creek	167	48	3	Laramie River Trib.	May 8	June 17
East Hoosier	101	36	23	Blue River	May 23	June 23
West Hoosier	0	..	..			
Boreas Pass	166	36	23	Blue River	May 24	Aug. 3
*Jones Pass	9,555	51	7	Wms. Fk. River	May 10	Aug. 15
*Eureka	35	51	4	Colorado River	June 30	Aug. 3
Berthoud Pass	566	51	7	Colorado River	June 6	Sept. 8
Total	75,241					

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*First year of operation.

MOFFAT TUNNEL SUMMARY

1940

	Ac. Ft.	Ac. Ft.
East Portal		28,813
Diverted at Eldorado Springs	26,802	
Used through Ralston Reservoir	24,537	
Used by Exchange:		
Eleven Mile Canon Reservoir	983	
Lake Cheesman	329	
Intake	209	
Clear Creek Sales	744	
South Boulder Creek Sales	1,050	
2½% charged for loss in transit	720	
Total accounted for	28,572	
Unaccounted for	241	

WILLIAMS FORK TUNNEL—1940

	Ac. Ft.	Ac. Ft.
Total Diversion at East Portal		9,555
Distribution:		
City of Denver, Parks Use	722	
City of Denver, Exchange at Intake	4,038	
City of Denver, Exchange at 11-Mile Reservoir	290	
City of Denver, Exchange at Lake Cheesman	218	
Total City Use	5,268	
Sales for Agricultural Use	3,763	
Total Use	9,031	
Loss in Transit Charged 5%	478	
Total Accounted for	9,509	
Unaccounted for	46	

Diversions from

LARAMIE RIVER AND TRIBUTARIES IN COLORADO

for Year 1940

State Engineer's Office

Name of Ditch	Starting Date	Ending Date	Total S.F. Discharged	Acre Feet
Bliler-Boswell	5-13-40	6-16-40	388.67	771
Brown (Nunn Creek)	5-11-40	6-17-40	269.30	534
Brown (Porter Creek)	5- 9-40	6-16-40	95.24	189
Brinker	5-17-40	6-16-40	31.04	62
Comet	6- 7-40	6-16-40	35.08	69
Cabin	5-13-40	6-16-40	84.28	167
Detro No. 1	5-12-40	6-17-40	151.01	300
Detro No. 2	.....	.....	0.00	...
Davy	5-12-40	6-16-40	252.51	501
Forrester	5-12-40	6-16-40	39.62	79
Forrester No. 1	5- 7-40	6-17-40	127.43	253
Forrester No. 2	5-14-40	6-17-40	44.43	88
Ferguson	5-12-40	6-17-40	61.12	121
Grace Creek and Enlargement	5-12-40	6-17-40	482.75	957
Hills	5-11-40	6-16-40	83.44	165
Upper Hills	5-11-40	6-16-40	207.86	412
Homestead	5-10-40	6-16-40	235.45	467
Homestead No. 1	5-12-40	6-16-40	150.98	300
Homestead No. 2	5-15-40	6-16-40	81.51	162
Hance	5-12-40	6-17-40	418.88	831
Jim	4-26-40	6-17-40	95.92	190
Jimmy and Enlargement	5-12-40	6-16-40	46.78	93
Jimmy	5-12-40	6-16-40	387.09	768
La Garde and Enlargement	5- 9-40	6-16-40	533.42	1,058
La Garde No. 1	5-17-40	6-16-40	119.47	238
Lamb	5- 1-40	6-16-40	672.21	1,333
Link No. 1	4-27-40	6-16-40	273.79	544
Link No. 2	6- 7-40	6- 9-40	7.38	15
Lone Tree	5-27-40	6-13-40	10.44	21
Mansfield and Enlargement	5-12-40	6-17-40	548.19	1,087
Mansfield No. 2	4-26-40	6-17-40	509.96	1,011
Martin No. 1	5-12-40	6-16-40	341.50	677
Martin No. 2	5- 5-40	6-16-40	581.38	1,153
McIntyre	5-10-40	6-16-40	249.16	494
Nellie	5-11-40	6-17-40	162.79	323
Ollie	5-13-40	6-14-40	6.84	14
Pache	5-18-40	6-16-40	417.11	827
Parker	5-11-40	6-16-40	266.26	528
Pine Creek	5- 9-40	6-16-40	180.46	358
Stuck	5-11-40	6-17-40	315.15	625
Smith-Brown	5-12-40	6-17-40	313.00	621
Stuart No. 1	4-27-40	6-16-40	180.04	357
Stuart No. 2	4-26-40	6-16-40	15.92	32
Stubb	5-13-40	6-16-40	70.13	139
Schnitger	5-12-40	6-16-40	198.06	393
Trollope	4-30-40	6-13-40	6.32	12
Talmadge	5- 9-40	6-16-40	146.59	291
Timothy	4-22-40	6-16-40	441.21	875
Thompson		Via Nellie Ditch		
Warren	5-15-40	6-17-40	148.13	294
Ward No. 1	5-18-40	6-12-40	21.28	42
Yelton	5-14-40	6-16-40	704.19	1,396
Wright	4-22-40	6-16-40	795.76	1,578
Grant	4-27-40	6-17-40	56.49	112
British Creek No. 1	5-11-40	6-16-40	72.62	144
Total Meadowland Diversions			12,135.64	24,070.69
Trans-mountain				
Bob Creek			84.15	166.91
Columbine			39.36	78.07
Deadman			306.10	607.14
Laramie-Poudre Tunnel			3,736.60	7,411.44
Skyline			3,637.70	7,215.27
Lost Lake			66.80	132.50
Total Trans-mountain Diversions			7,870.71	15,611.33
Grand Totals			20,006.35	39,682.02

Compiled by Glen E. Whitten, Special Deputy State Engineer.

Checked by J. E. Whitten, Special Deputy State Engineer.

CROP REPORT

Measured 2519 tons of native hay in District 48, from 4100 acres cut over.

455 acres on Sand Creek irrigated. Total in District 48 irrigated, 4555 acres.

The following is a statement of water in storage in Irrigation Division No. 1, from May 1 to November 1, 1940, tabulated by districts. Does not include North Park District No. 47, nor the Laramie River Basin District No. 48, as there is very little storage in either of these districts.

By J. E. WHITTEN, Special Deputy.

VALUES IN ACRE FEET

Dist No.	May 1st	June 1st	July 1st	Aug. 1st	Sept. 1st	Oct. 1st	Nov. 1st
1	78,624	61,664	33,317	16,975	1,000	400	380
2	28,253	25,917	13,248	6,369	1,300	1,300	2,541
3	35,714	44,753	43,720	36,005	11,377	10,717	18,754
4	6,880	5,589	3,988	3,755	1,586	3,025	4,153
5	7,746	8,130	7,870	5,584	806	1,117	1,015
6	13,384	13,886	12,203	12,137	10,437	10,367	13,462
7	5,144	5,818	12,798	11,707	10,196	9,512	9,104
8	17,576	17,191	17,071	15,015	14,492	16,426	17,312
9	4,225	3,282	2,025	955	543	548	582
23	142,311	144,942	135,967	131,278	124,753	123,356	122,830
64	64,756	48,793	38,707	25,077	6,038	2,908	4,017
Totals	404,613	379,965	320,914	264,857	182,528	179,676	194,150
City of Denver	161,721	165,521	162,646	156,872	148,468	149,025	149,075
Bal. for Irrig.	242,892	214,444	158,268	107,985	34,060	30,651	45,075

CROP REPORT

IRRIGATION DIVISION NO. 1

1940

District No.	First Day Water Used from Natural Stream	Last Day Water Used from Natural Stream	No. Acre Feet Used for Season	Total Acres That Can Be Irrigated	Alfalfa
1	11- 1-39	10-31-40	222,246	183,126	36,318
2	4- 1-40	10-31-40	246,537	227,510	40,890
3	4-16-40	10-13-40	245,083	389,200	56,476
4	4- 7-40	10-31-40	118,396	139,450	36,370
5	3- 2-40	10-31-40	77,450	124,595	35,425
6	4- 1-40	10-31-40	96,047	195,173	29,681
7	3-30-40	10-31-40	96,844	112,365	13,430
8	3-15-40	10-31-40	92,426	111,855	12,780
9	4- 1-40	10-31-40	19,136	17,880	4,242
23	4-10-40	10-31-40	.....	50,000	.....
47	4-17-40	8-21-40	.....	70,000	.....
48	5- 1-40	6-17-40	24,070	5,000	.....
64	11- 1-39	10-31-40	263,041	174,726	27,344
65	4-16-40	10-31-40	13,218	*7,325	718
Totals			1,514,494	1,808,106	293,674

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*5,000 acres in Nebraska.

CROP REPORT

IRRIGATION DIVISION NO. 1

1940

District No.	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes
1	21,462	55,875	154	280	3,178
2	10,435	86,054	272	10,160	8,720
3	4,535	69,489	1,730	3,602	27,268
4	465	68,160	1,798	485	3,795
5	5,842	43,088	625	715	1,000
6	62,965	56,380	623	1,101	108
7	1,554	51,231	3,007	12,565	189
8	2,198	12,948	70	1,814	28
9	2,136	6,645	87	230	0
23	40,000	.....	.....	.....	.....
47	60,685	.....	.....	.....	.....
48	4,555	(2,519 tons native hay)			.....
64	30,498	46,376	159	932	2,315
65	327	365	33	43	50
Totals	247,657	496,611	8,558	31,927	46,651

District No.	Sugar Beets	Beans	Corn	Cabbage	Other Crops
1	15,972	15,883	.....	55	16,578
2	31,355	17,038	464	2,034	12,540
3	38,447	6,036	272	1,511	54,834
4	12,650	3,955	860	60	6,787
5	13,900	100	100	580	7,755
6	4,511	413	252	92	16,575
7	2,129	339	262	1,267	421
8	383	180	574	50	403
9	270	25	1,570	90	285
23	.....	.....	.....	.....	.....
47	.....	.....	.....	.....	.....
48	.....	.....	.....	.....	.....
64	19,023	3,094	1,913	13,015	5,649
65	151	533	1,145	6	57
Totals	138,791	47,596	7,412	18,760	121,884

District No.	Total Irrigated	Superintendence	Repairs	Improvements
1	165,755	$21,894	$41,242	$ 2,548
2	219,962	41,866	34,776	22,210
3	264,200	Not Reported		
4	135,385	22,100	1,200	9,900
5	109,130	11,050	6,875	.....
6	172,701	13,000	14,201	10,537
7	86,394	15,040	17,585	6,250
8	31,428	6,264	25,788	7,936
9	15,580	3,209	2,275	375
23	40,000	.....	.....	.....
47	60,685	.....	.....	.....
48	4,555	.....	.....	.....
64	150,318	25,416	36,721	5,741
65	†3,428	759	1,032	45
	1,459,521			

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†1,888 acres in Nebraska.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 2 FOR THE SEASON OF 1939

December 1, 1939.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

During the winter of 1938 and 1939 the stage of the Arkansas River and weather conditions permitted considerable storage of reservoir water.

The water content of the snowfall amounted to 5.36 inches which was 1.11 inches above the twenty-six year average. Moisture conditions were good during the winter months and when spring arrived the ground both on the farms and on the range was well supplied with moisture. The season opened very promising for agriculture.

On May 1st there was an excess of 2.55 inches of rainfall since the first of January. During the month of May climatic conditions changed radically and by November 1st the precipitation was 2.87 inches short of normal at the Pueblo station. This was a loss of 5.42 inches during the growing season when rainfall was most needed. Below is given a tabulation of the rainfall for 1939 and the 50-year average at the Pueblo station:

Nov. 1938	Dec. 1938	Jan. 1939	Feb. 1939	Mar. 1939	Apr. 1939	May 1939	June 1939	July 1939	Aug. 1939	Sept. 1939	Oct. 1939	Total
0.41	0.47	1.20	1.42	0.57	2.04	1.51	0.05	0.13	0.68	0.32	0.02	8.82
Average:												
0.36	0.50	0.31	0.47	0.59	1.31	1.60	1.36	1.94	1.82	0.75	0.66	11.67

Water conditions were unfavorable after May. At a time we usually get an extra amount of rainfall we passed through a dry period. The flow of the Arkansas River at Pueblo amounted to 390,000 acre feet in 1939 which included 63,300 acre feet of reservoir and transmountain water. The average flow is 516,074 acre feet.

The melting snows furnished a fair runoff during May and June but after the snow water was gone there was no runoff from storms to supply irrigation water.

Grasshoppers and insects were again prevalent and did much damage.

There were no destructive hail storms and no runoff from rain storms to cause sudden changes in the stream flow and under these favorable conditions we made observations on several runs of reservoir water and secured reliable records. This data should be worked up as it will give information as to losses and the best practice to follow in handling reservoir runs. The running of reservoir water long distances from the mountains has been a source of misunderstanding and I now believe we are on the road to correct this trouble.

On May 1, 1939, there was in storage 162,071 acre feet of water. This was divided as follows: For irrigation, 147,287 acre feet. For power purposes, 10,287 acre feet, and for domestic use 5,007 acre feet.

On November 1, 1939, there was in storage 53,388 acre feet which was divided as follows: For irrigation, 40,111 acre feet. For power purposes, 9,362 acre feet, and for domestic use 3,915 acre feet.

During the past season a total of 63,371 acre feet of reservoir and transmountain water was run to canals near Pueblo and east of here. A charge of 7,970 acre feet was made for the use of the river channel as a carrier.

During the past season a total of 45,506 acre feet of water was brought from the Western Slope for use in the Arkansas Valley, which with the reservoir water was a very material help to the irrigated agriculture of this valley.

Yours truly,

C. W. BEACH,
Division Engineer Irrigation Division No. 2.

IRRIGATION DIVISION No. 2.

Tabulated Statement of Water Commissioners' Annual Crop Reports for the Irrigation Season of 1939

Number of Water District 1	Amount Appropriated in Cubic Feet per Second 2	Capacity of Ditches in Second Feet 3	Length of Main Ditches in Miles 4	Length of Laterals in Miles 5	First Day Water Was Diverted from Natural Stream 6	Last Day Water Was Diverted from Natural Stream 7	Maximum Number of Days Water Diverted from Natural Stream 8	Maximum Number of Days Water Diverted from Reservoirs 9	Amount of Water Carried from Reservoirs Acre Feet 10	Average Daily Amount Diverted from Natural Stream 11	Number of Acre Feet Diverted During Season from Natural Stream 12	Number of Acres That Can Be Irrigated 13
10....	660.95	......	132.75	....	March 2	Nov. 1	231	275	6,096	134.04	40,835.66	24.255
11....	1,275.5	1,306.37	305.75	....	March 1	Nov. 30	275	...	.....	1,052.24	225,057.54	37,399.5
12....	1,187.65	......	101.6	....	Nov. 1	Oct. 31	356	126	4,419	320.87	391,083	29,062
13....	498.98	......	268.25	....	May 3	Oct. 31	59	123	3,520	210.44	22,869	17.249
14....	1,973.93	2,157	266.50	....	Nov. 1, 1938	Oct. 31	337	93	66,750	708.5	247,426	113,805
15....	211.9	270.9	88.05	....	Nov. 1, 1938	Oct. 31	277	...	448	109.23	21,866.64	13,285
16....	1,434.56	4,607.41	643.17	....	Nov. 1, 1938	Oct. 31	198	16	1,120	274.29	20,199.27	113,109
17....	5,923.28	7,386	503	....	Nov. 1, 1938	Oct. 31	285	90	23,493	8,241	262.830.4	186,141
18....	370.23	......	55	....	May 3	Aug. 15	6	8	224	.....	294	7,601
19....	1,859.07	......	373.77	....	Nov. 1, 1938	Oct. 31	337	40½	10,887	.....	......	50,958
67....	3,412.75	1,894	225.5	....	Nov. 1, 1938	Oct. 31	316	65	7,722	407.35	152.414	.....
66....	......	......	....	....			...	...	.....	.....	466	.....
Totals	18,808.80	17,621.68	2,973.34						124,679	11,457.96	1,385,341.15	592,864.50

Number of Water District	Alfalfa 14	Natural Grasses 15	Cereals 16	Orchards 17	Market Gardens 18	Potatoes and Cantaloupes, Onions 19	Sugar Beets 20	Head Lettuce and Cauliflower, Cabbage 21	Peas, Beans 22	Other Crops 23	Total Irrigated 24	Cost of Superintendence 25	Cost of Repairs 26	Cost of Improvements 27
10....	2,375	3,494	3,882	25	326	467	407	....	101	671	13,038	$ 3,087.50	$ 13,051.50	$ 190.00
11....	5,135	14,644	6,527	122	518	916	102	87	1,460	898	30,860	....	....	3,191.00
12....	5,497	2,272	5,821	3,911	437	51	197	214	178	1,900	20,479	....	14,262.00	....
13....	1,737	12,852	1,901	2	2	1	36	16	65	637	17,249	....	....	1,118.50
14....	36,656	4,875	21,835	332	2,675	2,176	13,103	1,013	9,210	3,749	100,578	14,350.00	15,211.00	16,152.98
15....	2,928.5	2,446	2,531.5	18	1	....	38	....	1	35	8,076.5	....	....	2,866.00
16....	15,538	6,939	12,198	117.5	71	....	870	....	1,803	726	38,263.5	3,875.00	6,567.94	2,132.37
17....	52,176	3,483	6,384.7	414	1,205	6,963	13,247	....	3,998	7,642	152,878	28,264.40	37,738.24	103,669.06
18....	730	160	420	3	....	....	....	....	....	....	1,415	....	6,400.00	....
19....	4,850	3,785	7,124	27	91	....	1,177	....	3,239	1,444	21,737	2,230.00	10,162.00	3,825.00
67....	17,390	1,553.83	24,672.22	20	132	2,735.50	....	....	119	14,255	61,097.73	18,877.44	12,159.60	9,794.00
66....	115	....	95	....	....	....	....	....	....	....	210	....	....	....
Totals	145,127.50	56,503.83	150,853.72	4,991.5	5,518	13,309.5	29,177		1,330	20,174	465,881.73	$70,624.34	$115,552.28	$142,938.91

IRRIGATION DIVISION No. 2

Tabulation Showing Amount in Storage in Major Reservoirs, 1939—Amounts in Acre-Feet

Water District	Name of Reservoir	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	Fountain Valley No. 2	4,520	5,061	5,061	5,076	5,076	4,144	2,785	1,748	912	532	532	....
10	Fountain Valley No. 3	14	254	363	602	602	254	123	71	36	36	36	....
10	Spring Run No. 2	192	192	192	207	207	181	127	31	17	17	53	....
10	Calahan	9	9	9	85	85	47	23	5	5	5	5	....
10	Cheyenne Mountain	140	155	155	266	266	155	95	46	46	28	28	....
10	Monument (State)	404	436	436	290	404	404	363	71	70	71	71	....
11	Sugar Loaf	5,872	6,219	6,453	6,597	6,939	8,139	10,266	4,714	1,512	1,512	1,587	....
11	Twin Lakes	27,363	27,847	28,334	28,431	23,801	....	44,085	33,465	17,521	17,072	16,961	....
11	Clear Creek	4,049	4,460	4,649	5,095	3,499	....	688	487	502	502	538	....
12	Skaguay	1,968	1,514	969	903	1,664	2,470	2,314	1,736	1,304	998	996	....
12	Mount Pisgah	2,298	2,446	2,619	2,709	3,043	3,041	2,112	1,351	1,188	1,052	242	....
12	Brush Hollow	2,397	3,101	3,442	3,866	3,889	3,397	2,560	1,055	220	61	61	....
12	City Colorado Springs	....	4,348	3,903	....	3,259	....	....	....	4,485	4,485	....	....
13	Dewees-Dye	2,661	2,762	3,081	3,520	3,297	2,661	1,598	750	379	0	0	....
14	Teller	579	573	573	514	549	278	132	42	42	25	0	....
14	Lake Henry	5,223	5,469	5,617	5,614	5,130	5,321	....	2,630	2,630	2,630	1,661	....
14	Lake Meredith	922	3,643	11,513	24,764	24,095	16,959	2,922	500	0	0	0	....
15	Beckwith	252	349	386	511	511	466	198	153	74	63	63	....
15	Minnequa	1,283	1,312	1,331	1,389	1,370	1,351	1,236	1,163	1,115	1,066	1,059	....
15	C. F. & I. No. 2	2,522	2,514	2,467	2,591	2,756	2,697	2,676	2,701	2,677	2,738	2,733	....
15	C. F. & I. No. 3	4,377	4,633	2,467	3,060	4,497	3,936	3,456	3,276	3,679	3,818	4,399	....
16	Coler	286	358	555	877	1,003	857	149	149	0	0	0	....
16	Cucharas	1,940	1,816	1,848	2,661	2,108	1,460	1,103	805	656	463	346	....
16	Bradford	0	0	0	0	0	0	0	0	0	0	0	....
16	Huerfano Valley	1,529	1,843	1,843	1,843	1,843	951	782	294	231	0	0	....
16	Crane-Holmes No. 1		Dam Out										
16	Lindsley Lake	0	0	0	0	0	0	0	0	0	0	0	....
16	Holita	5	5	5	19	19	19	0	0	0	0	0	....
16	Valdez	0	0	0	0	0	0	0	0	0	0	0	....
16	Dotson	0	0	0	0	0	0	0	0	0	0	0	....
17	Dye	2,762	2,904	3,165	3,165	2,428	1,087	576	0	0	0	0	....
17	Holbrook No. 1	4,005	4,445	4,512	4,512	4,200	2,146	580	240	58	0	0	....
17	Horse Creek	2,866	4,022	5,705	8,874	8,250	7,015	4,220	0	0	0	0	....
17	Adobe	8,595	8,596	8,415	8,432	8,166	4,666	961	0	0	0	0	....
18	Seven Lakes	800	800	800	800	800	800	450	175	100	100	75	....
19	Model	8,229	8,767	9,192	8,974	8,456	6,016	2,144	0	0	0	0	....
19	Hermosa		No report		13	....	....	26	....	0	0	0	....
19	North Lake	821	766	708	656	708	854	860	843	806	751	656	....
67 67 67	Nee No She Nee Gronda Nee Sopah	0	0	0	0	0	0	0	0	0	0	0	....
67	Nee Skah or Queen	6,441	6,386	6,113	6,556	6,059	5,459	4,627	3,974	3,290	2,785	2,331	....
67	Two Buttes	28,961	28,656	27,523	27,305	26,869	24,332	22,660	22,105	22,105	18,194	16,779	....
67	Thurston	0	0	0	0	683	244	0	0	0	0	0	....

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 2 FOR THE SEASON OF 1940

December 9, 1940.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

The winter of 1939 and 1940 was mild and open with but little snow. Winter irrigation was practiced and consumed much of the winter stream flow, consequently there was but little storage.

During the months of April and May we had an excess of rainfall which was of great help in starting spring crops. All seedings had a good start and looked promising up to June first when the dry weather set in. The average rainfall for June, July and August is 5.12 inches. During these three months this year there was only 2.22 inches.

The water content of the mountain snowfall was 2.29 inches and the average water content for the past twenty-six years is 4.08 inches. The June runoff from snow was light and this coupled with a dry summer was disastrous to many crops.

Below I give a table showing the average rainfall by months together with the rainfall during the past growing season:

Nov. 1939	Dec. 1939	Jan. 1940	Feb. 1940	Mar. 1940	Apr. 1940	May 1940	June 1940	July 1940	Aug. 1940	Sept. 1940	Oct. 1940	Total
0.51	0.41	0.72	0.66	0.36	1.54	1.76	0.39	1.01	0.82	1.96	0.36	10.50
Average:												
0.36	0.50	0.31	0.47	0.59	1.31	1.60	1.36	1.94	1.82	0.75	0.66	11.67

This table gives some idea of moisture conditions during the growing season.

Insect pests, especially grasshoppers, were less numerous than in former years. Poisoning and their natural enemies had reduced their numbers. There were no general destructive hail storms.

A total of 35,689 acre feet of transmountain water was brought over to the Arkansas River drainage during the 1940 season.

Transmountain water and reservoir water played an important part in our irrigated agriculture. A total of 40,343 acre feet of transmountain and reservoir water was run to canals in water districts 14 and 17, and a charge of 4,202 acre feet was made on this water for the use of the river channel in carrying this water.

On May 1, 1940, there was a total of 57,763 acre feet in storage in reservoirs divided as follows: For irrigation, 48,411 acre feet; for manufacturing purposes, 7,311 acre feet, and for municipal purposes, 1,983 acre feet. The average amount in storage for the past 12 years on May 1st is 124,731 acre feet.

On November 1, 1940, there was a total of 41,173 acre feet in storage, divided as follows: For irrigation, 25,205 acre feet; for manufacturing purposes, 14,142 acre feet, and for municipal use 2,826 acre feet. The average amount in storage on November 1st for the past 12 years is 88,761 acre feet.

During the past season a number of observations under good conditions were secured on running of reservoir water. The run observed from August 12th to 24th was made under very dry river conditions and the observations were especially instructive. Also observations were made on flash floods as they pass down the river channel and the amount of absorption over the dry sand. The results are instructive and will assist greatly in future handling of this type of stream flow.

Yours truly,

C. W. BEACH,
Division Engineer Irrigation Division No. 2.

IRRIGATION DIVISION No. 2

Tabulated Statement of Water Commissioners' Annual Crop Reports for the Irrigation Season of 1940

Number of Water District 1	Amount Appropriated in Cubic Feet per Second 2	Capacity of Ditches in Second Feet 3	Length of Main Ditches in Miles 4	Length of Laterals in Miles 5	First Day Water Diverted from Natural Stream 6	Last Day Water Diverted from Natural Stream 7	Maxium Number of Days Water Diverted from Natural Stream 8	Maximum Number of Days Water Diverted from Reservoirs 9	Amount of Water Carried from Reservoirs Acre Feet 10	Average Daily Amount Diverted from Natural Stream 11	Number of Acre Feet Diverted During Season from Nat. Stream 12	Number of Acres That Can Be Irrigated 13
10....	638.85	......	118.25	.....	Mar. 1, 1940	Nov. 10	235	191	4,679	152.02	28,915.56	26,109
11....	1,275.5	1,306.37	306.37	.....	Mar. 1, 1940	Nov. 1	275	117	41,105	1,052	225,057	7,399
12....	677.11	1,020.7	224	.....	Nov. 1, 1939	Oct. 31	311	104	6,360	591.67	311,107	27,853
13....	450.36	......	110	119.28	May 1, 1940	Sept. 10	137	...	4,380	179.08	17,989	6,347
14....	1,945	2,101	251	.....	Nov. 1, 1940	Oct. 31	336	8	192	422	153,432	115,148
15....	221.9	270.9	88	.....	Nov. 1, 1939	Oct. 31	277	...	.....	75.4	12,550	13,936
16....	1,478.62	4,516.47	733.47	.....	Apr. 1, 1940	Oct. 20	208	5	30	211.5	47,149.72	113,604
17....	5,923	7,586	513	.....	Nov. 1, 1939	Oct. 31	352	21	3,750	630	233,024	192,452
18....	374.6	......	56.5	.....	Apr. 8, 1940	July 18	9	...	.....	......	562	8,725
19....	1,859.09	......	374.77	.....	Nov. 1, 1939	Oct. 31	331	365	5,824	115.9	36,886	50,610
67....	3,437.2	1,898	224.25	.....			...	...	.....	......	97,899	......
Totals	21,720.94	18,698.81	2,999.37				352	365	66,320	3,429.57	1,138,547.28	572,180

Number of Water District	Alfalfa 14	Natural Grasses 15	Cereals 16	Orchards 17	Market Gardens 18	Potatoes and Cantaloupes 19	Sugar Beets 20	Head Lettuce, Cauliflower, Cabbage 21	Peas, Beans 22	Other Crops 23	Total Irrigated 24	Cost of Superintendence 25	Cost of Repairs 26	Cost of Improvements 27
10....	1,726	3,501	1,938	34	229	366	285	246	40	1,039	12,255	$ 4,690.06	$ 14,094.89	$ 205.00
11....	5,135	4,644	6,527	122	517	916	102	87	1,460	898	36,500	....	....	3,164.00
12....	5,112	1,309	5,065	3,370	420	...	345	175	236	1,696	18,328	....	49,324.00	....
13....	1,592	12,068	2,036	3	...	1	...	50	65	384	16,347	....	....	308.70
14....	26,860	4,652	20,601	315	2,734	8,503	11,708	770	7,256	4,365	88,456	6,220.00	41,536.00	3,897.00
15....	2,375	1,962	2,349	10	...	...	70	...	26	122	6,900	....	300.00	4,000.20
16....	14,347	6,388	11,359	134	157	...	468	...	1,420	1,279	35,553	1,690.00	1,284.00	150.00
17....	56,992	1,517	43,107	190	909	5,832	12,504	...	3,533	26,233	150,817	27,920.00	14,388.00	16,582.00
18....	11	305	1,493	3	...	...	...	...	.....	.....	2,937	....	....	....
19....	6,448	5,167	9,050	13	88	...	1,068	...	2,588	1,797	26,219	5,060.00	10,986.00	....
67....	16,231	1,334	27,606	2	70.25	236	2,147	...	147	12,696	60,857	16,897.00	8,624.00	9,415.00

IRRIGATION DIVISION No. 2

Tabulation Showing Amount in Storage in Major Reservoirs, 1940—Amounts in Acre-Feet

Water District	Name of Reservoir	Dec. 1939	Jan. 1940	Feb. 1940	Mar. 1940	Apr. 1940	May 1940	June 1940	July 1940	Aug. 1940	Sept. 1940	Oct. 1940	Nov. 1940
10	Fountain Valley No. 2	550	564	708	963	1,014	1,014	1,496	1,224	912	151	391	532
10	Fountain Valley No. 3	36	27	195	175	169	46	46	46	27	14	20	20
10	Spring Run No. 2	53	53	127	152	152	164	192	95	127	85	152	127
10	Calahan	5	5	5	5	5	5	269	145	47	85	85	85
10	Cheyenne Mountain	28	28	28	28	28	0	95	28	28	13	46	46
10	Monument	71	85	85	85	71	58	447	404	178	169	178	178
11	Sugar Loaf	1,508	1,508	1,692	1,692	1,692	1,692	4,046	7,253	4,944	3,350	3,075	3,115
11	Twin Lakes	15,771	15,805	15,502	15,591	15,092	15,591	20,919	23,496	17,567	9,975	10,683	10,965
11	Clear Creek	776	776	1,006	1,006	1,006	1,006	1,084	931	493	135	337	776
12	Skaguay	1,086	1,109	835	520	177	180	91	0	315	393	501	888
12	Mount Pisgah	127	127	....	380	315	315	433	433	393	398	413	471
12	Brush Hollow	109	109	....	895	1,530	1,975	1,634	1,076	453	76	230	230
12	City of Colorado Springs	1,823	1,823	....	1,726	597	615	1,430	....	1,572	....	....	1,785
13	Dye-Deweese	0	0	576	576	591	555	692	500	277	251	220	401
14	Teller	0	0	0	0	0	0	949	0	289	373	889	928
14	Lake Henry	1,128	969	2,630	5,617	5,469	4,384	....	3,858	4,031	3,186	2,530	1,849
14	Lake Meredith	0	0	0	0	....	0	0	0	0	0	0	0
15	Beckwith	63	63	86	101	....	420	424	337	143	110	107	166
15	Minnequa	1,355	1,389	1,385	1,188	1,215	1,241	1,288	1,156	1,053	971	....	1,274
15	C. F. & I. No. 2	2,757	2,682	2,679	2,651	2,677	2,699	2,699	2,699	2,701	2,725	2,749	2,738
15	C. F. & I. No. 3	4,574	4,363	2,003	3,209	3,478	3,133	3,808	3,546	3,961	4,081	4,484	4,443
16	Coler	0	0	0	0	0	0	0	0	0	0	0	0
16	Cucharas	248	224	419	419	419	419	542	322	322	322	322	322
16	Bradford	0	0	0	0	0	0	0	0	0	0	0	0
16	Huerfano Valley	0	0	0	....	903	854	456	0	0	0	0	0
16	Crane Holmes		Dam Out										
16	Lindsley Lake	0	0	0	0	0	0	0	0	0	0	0	0
16	Holita	0	0	0	0	0	0	0	0	0	0	0	0
16	Valdez	0	0	0	0	0	0	0	0	0	0	0	0
16	Dotson	0	0	0	0	0	0	0	0	0	0	0	0
17	Dye	0	0	40	136	110	0	244	0	0	0	0	0
17	Holbrook No. 1	0	0	1,324	3,324	2,885	2,716	1,621	552	205	0	0	0
17	Horse Creek	0	0	0	0	0	0	0	0	0	0	0	0
17	Adobe	0	0	0	0	0	0	0	0	0	0	0	0
18	Seven Lakes	75	50	50	35	35	35	30	0	0	0	0	0
19	Model	0	0	468	1,207	1,273	1,307	834	0	0	75	1,202	1,406
19	Hermosa	0	0	0	0	0	0	500	....	....	....	....	245
19	North Lake	636	....	490	405	366	328	631	872	872	874	867	837
67	Nee No Shee	0	0	0	0	0	0	0	0	0	0	0	0
67	Nee Gronda	0	0	0	0	0	0	0	0	0	0	0	0
67	Nee Sopah	0	0	0	0	0	0	0	0	0	0	0	0
67	Nee Skah (Queen)	1,987	1,901	1,815	1,987	2,159	1,815	1,556	0	0	0	0	0
67	Two Buttes	15,954	14,772	14,157	14,320	14,229	14,157	12,794	11,762	8,555	9,920	9,660	6,305
67	Thurston	0	0	0	0	0	0	0	0	0	0	0	0
15	San Isabel	1,040	1,040	1,041	1,041	1,040	1,040	1,043	1,040	1,040	1,039	1,040	1,041

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 3 FOR THE SEASON OF 1939

Alamosa, Colorado, November 10, 1939.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

I submit, herewith, my annual report of crop and water conditions in Division No. 3 for the year 1939.

This was a very backward spring, with killing frost during May and June, and, as a result, crops got a late start and heavy damage resulted to alfalfa, potatoes and market garden peas. The first planting of garden peas was a complete failure. The yield of potatoes was curtailed as a result of the late frosts, and the first planting of cauliflower was destroyed. Only July and August were without killing frost.

Soil conditions in the early season were excellent for seed germination, but later, especially during July, owing to drying wind, heat and shortage of water for irrigation and the absence of the usual precipitation, many crops suffered to the extent of 25% to 50%.

Storage water in the larger reservoirs on May first was above the ten-year average, but by August first was reduced to 35% of normal, and the season ended with the lowest amount in storage since 1934. The season ended with 14,759 acre feet, of which 6,000 acre feet are in storage for fish culture.

The precipitation for this season was only 55% of the normal record. This, together with a less than normal snowfall in the high areas and the very light water content of the snow caused a water shortage for direct irrigation, and, as a result, practically all junior rights were shut off in June, causing a heavy crop loss.

Owing to early melting of snow and shortage of rainfall on the high ranges during the early grazing season, livestock suffered considerably and as a result of this condition many herds were brought out two to three weeks earlier than usual.

Yours very truly,

WALTER D. CARROLL,
Irrigation Division Engineer.

WATER COMMISSIONER'S CROP AND DITCH REPORT

Water District	No. of Priorities Reported	First Day Water Was Used	Last Day Water Was Used	Maximum No. Days Water Diverted from Stream
20	419	Apr. 1	Nov. 15	214
21	76	Apr. 1	Oct. 31	216
22	187	Mar. 26	Oct. 31	217
24	98	Mar. 1	Oct. 31	252
25	96	Apr. 1	Oct. 31	213
26	116	Apr. 1	Oct. 31	203
27	77	Mar. 17	Oct. 31	190
35	70	Apr. 1	Oct. 17	193

Water District	No. Acre Feet Used by All Ditches from Natural Stream	Total No. of Acres That Can Be Irrigated	No. Acres of Alfalfa	Natural Grasses
20	464,669	518,225	42,369	57,327
21	63,768	62,906	5,396	17,091
22	252,648	150,045	11,151	27,196
24	38,771	23,256	4,680	2,950
25	46,104	90,847	1,850	23,098
26	36,826	54,407	2,848	26,275
27	9,496	9,100	885	2,108
35	82,488	48,774	3,373	15,545
Totals	994,770	957,560	72,552	171,590

Water Dist.	Cereals	Pasture	Market Garden Peas	Potatoes	Beans
20	47,534	117,758	2,441	32,331	44
21	6,406	1,202	2,795	3,179	969
22	17,506	18,429	2,799	2,550	1,047
24	9,515	2,700	294	741	2,436
25	543	56,112	....	20	2
26	638	12,621	....	66	....
27	282	1,810	27	387	21
35	2,719	2,563	895	154	185
Totals	85,143	213,195	9,251	39,428	4,704

Water Dist.	Field Peas	Cabbage	Sugar Beets	Sweet Clover	Other Crops
20	14,860	....	1,861	41,772	15,387
21	3,662	....	87	3,763	969
22	6,267	....	609	10,631	2,364
24	7,884	178	112	....	5,442
25	....	....	....	66	9
26	....	....	....	....	....
27	265	....	....	102	....
35	2,405	....	43	....	621
Totals	35,343	178	2,712	56,334	24,792

Water District	Total Acres Irrigated	Cost of Administration Water Comm'rs and Deputies	Cost of Superintendence	Cost of Repairs	Cost of Improvements
20	373,684	$ 2,475.00	$ 6,085.00	$ 4,159.00	$ 1,642.00
21	45,519	1,599.00	150.00	290.00	......
22	100,549	1,518.00	......	......	......
24	36,932	2,000.00	2,355.00	685.00	15.00
25	81,700	1,266.00	1,200.00	2,635.00	2,400.00
26	42,448	1,260.00	......	......	......
27	5,997	1,314.00	......	65.00	5.00
35	28,503	1,020.00	......	......	......
Totals	715,332				

	Comparison of Total Acres Irrigated	Comparison of Cost of Administration Expenses, Water Commissioners, and Deputies
1932	705,781	$12,376.00
1933	880,934	11,427.00
1934	638,766	13,251.00
1935	755,724	13,893.00
1936	663,724	11,690.00
1937	646,082	15,580.00
1938	702,392	13,145.00
1939	715,332	12,452.00=1.96 cents per acre

WATER COMMISSIONER'S RESERVOIR REPORT

District No.	Capacity in Acre Feet in All Reservoirs	Quantity of Water in Acre Feet in Reservoirs May, 1939	Quantity of Water in Acre Feet in Reservoirs Nov., 1939	First Day Water Used from Reservoirs	Last Day Water Used from Reservoirs	Maximum No. Days Water Used from Reservoirs	Total No. Acre Feet Water Used from Reservoirs
20	134,483	63,940	5,574	April 14	Sept. 21	135	59,344
21	31,752	11,486	119	June 5	Sept. 7	94	11,365
22	9,710	5,160	0	April 2	July 15	105	7,428
24	112,563	24,861	6,635	May 6	Oct. 6	153	38,626
35	25,483	15,189	2,431	May 1	Oct. 7	153	23,008
Totals	313,991	120,635	14,759				139,771

COMPARISON ACRE FEET CARRIED FROM RESERVOIRS	
1932	147,101
1933	97,058
1934	62,391
1935	102,537
1936	111,807
1937	149,247
1938	131,930
1939	139,771

COMPARISON OF ACRE FEET IN RESERVOIRS	May 1	Nov. 1
1932	41,488	42,211
1933	56,875	29,080
1934	47,489	11,087
1935	28,216	64,361
1936	84,419	43,294
1937	79,910	36,060
1938	93,520	82,051
1939	120,635	14,759

WATER COMMISSIONER'S RESERVOIR REPORT —Continued

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON FIRST DAY OF EACH MONTH, FROM DECEMBER 1, 1938, TO NOVEMBER 1, 1939

	Rio Grande Reservoir Cap. 51,113	Santa Maria Reservoir Cap. 42,000	Continental Reservoir Cap. 26,716	Sanchez Reservoir Cap. 103,155
12-1-38	31,054	11,560	4,570	18,087
1-1-39	33,249	11,390	5,100	18,087
2-1-39	34,181	11,875	5,100	17,891
3-1-39	35,580	12,300	5,100	17,648
4-1-39	36,502	13,125	5,100	19,606
5-1-39	36,750	15,051	6,562	22,897
6-1-39	34,049	17,851	6,379	25,407
7-1-39	16,755	11,581	4,746	16,468
8-1-39	0	2,231	3,071	7,523
9-1-39	0	0	1,767	5,870
10-1-39	0	0	1,220	5,061
11-1-39	0	0	1,050	6,077

	Terrace Reservoir Cap. 17,700	La Jara Reservoir Cap. 14,052	Mountain Home Reservoir Cap. 19,150	Smith Reservoir Cap. 6,212
12-1-38	5,299	2,781	6,700	4,191
1-1-39	5,299	2,165	6,700	5,336
2-1-39	5,608	1,921	7,325	5,336
3-1-39	5,948	1,753	7,655	5,336
4-1-39	6,838	2,311	8,706	5,336
5-1-39	7,526	3,960	9,853	5,336
6-1-39	6,906	3,709	10,260	5,336
7-1-39	5,162	2,009	6,700	2,925
8-1-39	2,989	610	2,436	1,195
9-1-39	735	119	1,096	539
10-1-39	0	119	1,252	691
11-1-39	0	119	1,650	781

	Cove Lake Reservoir Cap. 9,710	Salazar No. 1 Reservoir Cap. 100	Salazar No. 2 Reservoir Cap. 40
12-1-38	0	....	....
1-1-39	0	....	....
2-1-39	0	....	....
3-1-39	0	....	....
4-1-39	540	....	....
5-1-39	5,160	....	0
6-1-39	5,514	....	....
7-1-39	1,962	....	....
8-1-39	0	....	....
9-1-39	0	....	....
10-1-39	0	....	....
11-1-39	0	....	0

	Archuleta Reservoir Cap. 97	Hunters Lake Res. Cap. 48	Spruce Lake Res. No. 1 Cap. 88	Spruce Lake Res. No. 2 Cap. 93
May 1	97	18	88	93
Nov. 1	0	0	0	0

	Dude Ranch Reservoir Cap. 125	Road Canon Reservoir Cap. 2,800	Poage Cap. 260	Lost Lakes Reservoir Cap. 1,066
May 1	125	2,800	260	505
Nov. 1	...	2,650	0	0

	Shaw Reservoir Cap. 638	Bristol Head Res. No. 1 Cap. 153	Bristol Head Res. No. 2	Beaver Park Reservoir Cap. 4,434
May 1..................	320	92	225	424
Nov. 1..................	0	0	0	0

	Regan Lake Reservoir Cap. 1,200	Chenoweth Reservoir Cap. 40	Eastdale Res. No. 1 Cap. 3,468	Eastdale Res. No. 2 Cap. 3,047
May 1..................	200	40	1,924	0
Nov. 1..................	200	40	508	0

	Goin's Lake Reservoir Cap. 40	Humphries Reservoir Cap. 842	Trout Lake Reservoir Cap. 198	Wright's Lake or Spring Creek Res. Cap. 120
May 1..................	40	842	198	120
Nov. 1..................	0	675	0	120

	Ruby Lake Reservoir Cap. 120	Hermit Lake Res. No. 1	Hermit Lake Res. No. 2 Cap. 360	Grace Lake Reservoir Cap. 605
May 1..................	120	423	360	605
Nov. 1..................	120	423	360	605

	Sowards Lake Reservoir	Goose Creek Reservoir Cap. 231	Wee Ruby Reservoir Cap. 150	Brown's Lake or Troutvale Reservoir Cap. 510
May 1..................	200	231	134	510
Nov. 1..................	160	0	0	510

	Fuchs Reservoir Cap. 200	Squaw Pass Reservoir Cap. 85	Powell Reservoir Cap. 21	Metroz Reservoir Cap. 96
May 1..................	30	85	21	96
Nov. 1..................	0	0	0	29

Potatoes

This year's estimated acreage of potatoes is 75% of normal, and the yield about 75%. The quality is good, and the price fair. There was a slight damage from Psylid, which has been controlled to some extent by spraying. The drouth was responsible for a 10% loss.

A bacteria wilt, a new disease recently developed, was a further cause of loss and up till now, no remedy has been able to control the disease. Clean seed from unaffected ground and rotation of land seems to help.

Shipments by rail and truck were 5,008 cars with 2,500 cars in storage. Price is $1.00. Demand is good.

Mixed Vegetables Shipments

These shipments contained all varieties of vegetable products raised in the Valley and were made up of spinach, cauliflower, lettuce, garden peas, broccoli, snap beans, carrots, etc. These were early shipments sent out before the straight cars were available. There were 532 cars.

Head Lettuce

The acreage of head lettuce was normal and yield good, quality was good on first cutting, but hot dry weather at the later season caused the heads to go to seed. Price was fair. There were 359 cars shipped.

Cauliflower

The acreage of cauliflower was much larger than the average, and condition excellent. The market started out at 55c-60c per crate, but broke in mid-season and the price dropped to 25c. The Surplus Commodity bought 50 cars in an effort to stabilize the price, but to no avail. 958 cars were shipped.

Field Peas

The acreage and yield of field peas was normal. The black leg or root rot made some inroads on the yield. No treatment as yet has been able to control this disease. Clean seed and new ground is the only remedy so far. The price of $2.75 per cwt. prevails, but the demand is mostly local for seed. Texas and Northern Colorado are our best markets.

Sugar Beets

The yield was below normal owing to shortage of water. The sugar content was 18% but the average yield was only 7 tons per acre. Some excellent yields were made where water was pumped—as high as 15 tons per acre. 417 cars were shipped.

Cabbage

Acreage and yield was normal and price, $12 per ton, made good money for the farmer. There was a good demand. Some damage caused by aphis and some worm damage.

There were 490 cars shipped.

Market Garden Peas

The acreage of market garden peas was slightly below normal on account of the Triple A restrictions. and the yield was short owing to a heavy freeze which practically cut off the early picking. However, the later planting came on in good shape and quality was excellent. Price was very satisfactory opening at 4½c then dropping to 2c. The canning factory took all the culls, so there was no loss in marketing.

There were 892 cars shipped.

Cereals

Oats and barley acreage normal. Yield was lower than the average, due to an early frost and drouth.

Wheat was 80% of normal yield.

Alfalfa

The yield of alfalfa is 70% normal, due to heavy loss on first cutting caused by a freeze in July, also to the inroads caused by grasshoppers. In some cases first cutting was a total failure. The second cutting was normal with price at $9.00 in the stack and a good demand is anticipated on account of a short wild hay crop locally also. Especially short crop in New Mexico and the San Juan Basin will cause requirement for this product.

The wild hay crop in the Valley is only 50% of normal and will be in good demand for local livestock.

Sweet Clover

The sweet clover acreage is normal but the yield was cut materially by the July freeze and grasshoppers. The seed crop is above normal, but the price of 3c per pound and poor market has caused the storage of practically the entire crop. The usual turn-under for fertilization was not had this season on account of dry weather; farmers could not plow it under.

THE TOTAL CAR LOT AND TRUCK SHIPMENT SO FAR THIS SEASON IS:

Cauliflower	958
Market Garden Peas	892
Mixed Car Loads	532
Spinach	19
Head Lettuce	359
Cabbage	490
Potatoes	5,008
Sugar Beets	417
Total	8,675

Grasshoppers

A campaign of extermination was put on. There were 3,936 acres of crops damaged by grasshoppers. Damage was estimated at $42,480. 21,800 acres protected by the poison. Saving estimated at $56,300.

142½ tons poison used, spread in Alamosa County. Nine bait spreaders were used. Largest damage done to alfalfa and sweet clover, estimated at 20%, sweet clover loss at $1,600 and alfalfa at $1,500. The loss was principally confined to Alamosa County. Grasshopper eggs were laid in September and it is thought the poison campaign, parasites and diseases, brought the pests under control by August first, and left few adults to lay eggs for coming season.

Municipal Water Supply

The usual shortage of municipal water supply occurred during the midsummer, when the load was heaviest owing to demand for sprinkling and garden irrigation, especially in Antonito and Del Norte, where the service had to be restricted to household requirements during July and August. These towns are supplied by gravity lines from filtration systems from the streams above.

In all other municipalities, artesian water is used and the supply for all purposes was adequate.

Betterments and Repairs

A thorough overhauling of the valve system on the Santa Maria Reservoir is now under way. When completed, the system will be in first class working order.

Also repairs on the intake pipe line.

Spillway on the Farmers Union Reservoir has been repaired.

Work is now under way on the Beaver Dam Reservoir. Work on the tower, valves and bridge. Drainage tunnel has been filled with loose rock.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 3 FOR THE SEASON OF 1940.

Alamosa, Colorado, November 25, 1940.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

Following is a report of stream diversion, storage and crop conditions in Division No. 3, for the year 1940. As a result of an extremely dry season in 1939 and a sub-normal snowfall for the 1939-40 season, a serious condition confronted the water users over the division. The snowfall was only 50% of normal and the water content was proportionately deficient. Soil conditions were so bad that irrigation was necessary before planting, resulting in late seeding. The runoff of most streams on the west range was early and practically all junior ditches were shut down by the middle of June, at a time when most needed to mature the crops.

The runoff of streams heading on the Continental Divide was about 50% normal while the storage on the water shed one of the lowest in many years, only equalled in 1934. The water condition on the Sangre de Cristo shed, however, was much more satisfactory and resulted in normal yields and quality.

Storage water delivered to ditches this season was 57,975 acre feet as compared with a ten-year average of 117,718 acre feet. This is a record for low storage. Amount in storage on May 1st, was 36,906 acre feet and on November 1st, 12,113 acre feet, of which 6,000 acre feet is used for fish culture and not available for irrigation.

Respectfully,

WALTER D. CARROLL,
Irrigation Division Engineer, Division No. 3.

WATER COMMISSIONER'S CROP AND DITCH REPORT

Water District	No. of Priorities Reported	First Day Water Was Used	Last Day Water Was Used	Maximum No. Days Water Diverted from Stream
20	419	Mar. 1	Nov. 9	260
21	76	Mar. 1	Oct. 31	286
22	187	Mar. 1	Oct. 31	250
24	98	Mar. 1	Oct. 31	246
25	96	Apr. 1	Oct. 31	218
26	116	Apr. 1	Oct. 31	209
27	77	Apr. 1	Oct. 25	237
35	70	Apr. 1	Nov. 14	228

WATER COMMISSIONER'S CROP AND DITCH REPORT —Continued

Water District	No. Acre Feet Used by All Ditches from Natural Stream	Total No. Acres That Can Be Irrigated	No. Acres of Alfalfa	Natural Grasses
20	333,146	488,813	43,571	55,000
21	57,860	70,305	5,076	17,340
22	234,141	175,828	10,396	27,441
24	34,103	23,035	2,095	3,615
25	29,770	34,798	1,772	28,762
26	12,412	59,167	3,066	26,645
27	3,286	9,650	637	2,825
35	64,123	46,004	3,112	14,264
Totals	769,141	967,600	69,725	175,892

Water Dist.	Cereals	Pasture	Market Garden Peas	Potatoes	Beans
20	55,356	117,292	2,492	29,944	47
21	7,116	....	4,217	2,182	978
22	19,252	21,090	3,109	1,381	976
24	5,540	580	75	350	1,295
25	433	24,322	28	39	7
26	375	15,364	....	23	....
27	105	974	88	286	20
35	2,756	3,234	839	120	382
Totals	90,933	182,856	10,848	34,325	3,705

Water Dist.	Field Peas	Cabbage	Sweet Clover	Other Crops
20	12,892	59	35,050	16,622
21	2,228	174	1,996	746
22	3,949	192	9,413	2,700
24	3,225	260	115	2,600
25	....	....	66	....
26	....	....	....	10
27	100	....	121	80
35	2,655	601	32	97
Totals	25,049	1,286	46,793	22,855

Water District	Total Acres Irrigated	Cost of Administration Water Comm'rs and Deputies	Cost of Superintendence	Cost of Repairs	Cost of Improvements
20	368,325	$ 3,098.00	$ 4,416.00	$ 1,567.00	$ 6,451.00
21	42,053	1,822.00	......	......	......
22	99,899	1,360.00	......	......	......
24	19,750	2,358.00	2,190.00	275.00	1,190.00
25	55,429	1,374.00	400.00	450.00	980.00
26	45,483	1,416.00	......	......	......
27	5,236	1,494.00	......	105.00	240.00
35	28,092	1,104.00	......	......	......
Totals	664,267	*$14,026.00	$ 7,006.00	$ 2,397.00	$ 8,861.00

*$0.21 per acre.

Comparison of Total Acres Irrigated

1932	705,781
1933	880,934
1934	638,766
1935	755,724
1936	663,724
1937	646,082
1938	702,392
1939	715,332
1940	664,267

Comparison of Cost of Administration Expenses, Water Commissioners, and Deputies

COMPARISON OF ACRE FEET OF WATER DELIVERED TO DITCHES AND STREAMS

1932	1,223,321
1933	1,086,786
1934	700,740
1935	1,589,432
1936	1,157,522
1937	1,110,519
1938	1,371,624
1939	994,770
1940	769,141

WATER COMMISSIONER'S RESERVOIR REPORT

District No.	Capacity in Acre Feet in All Reservoirs	Quantity of Water in Acre Feet in Reservoirs May, 1940	Quantity of Water in Acre Feet in Reservoirs Nov., 1940	First Day Water Used from Reservoirs	Last Day Water Used from Reservoirs	Maximum No. Days Water Used from Reservoirs	Total No. Acre Feet Water Used from Reservoirs
20	134,516	17,148	4,268	May 13	Nov. 9	70	11,711
21	31,752	2,287	0	June 13	Aug. 8	67	1,704
22	7,910	2,255	0	April 28	Aug. 10	120	4,996
24	104,000	8,902	5,902	May 9	Oct. 2	150	28,822
35	25,483	8,569	1,943	April 10	Oct. 21	174	10,742
Totals	303,661	39,161	12,113				57,975

COMPARISON ACRE FEET CARRIED FROM RESERVOIRS

1932	147,101
1933	97,058
1934	62,391
1935	102,537
1936	111,807
1937	149,247
1938	131,930
1939	139,771
1940	57,975

COMPARISON OF ACRE FEET IN RESERVOIRS

	May 1	Nov. 1
1932	41,488	42,211
1933	56,875	29,080
1934	47,489	11,087
1935	28,216	64,361
1936	84,419	43,294
1937	79,910	36,060
1938	93,520	82,051
1939	120,635	14,759
1940	39,161	12,113

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON FIRST DAY OF EACH MONTH, FROM DECEMBER 1, 1939, TO NOVEMBER 1, 1940

	Rio Grande Reservoir Cap. 51,113	Santa Maria Reservoir Cap. 42,000	Continental Reservoir Cap. 26,716	Sanchez Reservoir Cap. 103,155
12-1-39	....	1,104	....	6,718
1-1-40	....	1,900	....	7,084
2-1-40	....	2,618	....	7,211
3-1-40	4,137	3,357	....	7,271
4-1-40	5,342	3,805	....	8,100
5-1-40	4,727	3,823	2,531	10,909
6-1-40	Dry	3,682	2,201	21,429
7-1-40	Dry	1,882	1,027	12,814
8-1-40	Dry	1,199	480	5,169
9-1-40	Dry	1,021	118	2,708
10-1-40	Dry	1,134	Dry	3,683
11-1-40	Dry	720	Dry	5,061

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON FIRST DAY OF EACH MONTH, FROM DECEMBER 1, 1939, TO NOVEMBER 1, 1940

	Terrace Reservoir Cap. 17,700	La Jara Reservoir Cap. 14,052	Mountain Home Reservoir Cap. 19,150	Smith Reservoir Cap. 6,212
12-1-39	0	119	1,650	781
1-1-40	456	119	2,888	1,591
2-1-40	1,205	119	2,970	1,996
3-1-40	1,755	119	3,240	2,805
4-1-40	2,150	547	3,395	3,852
5-1-40	1,740	547	4,194	4,597
6-1-40	2,163	547	6,379	3,240
7-1-40	1,700	500	4,275	1,751
8-1-40	735	50	1,574	1,123
9-1-40	0	20	1,309	1,033
10-1-40	0	20	1,079	1,123
11-1-40	0	20	1,252	691

	Cove Lake Reservoir Cap. 9,710	Salazar No. 1 Reservoir Cap. 120	Salazar No. 2 Reservoir Cap. 40
12-39	0	0	0
1-1-40	0	0	0
2-1-40	0	0	0
3-1-40	0	80	0
4-1-40	0	100	0
5-1-40	2,255	120	0
6-1-40	4,932	120	0
7-1-40	1,270	100	0
8-1-40	384	60	0
9-1-40	Dry	70	0
10-1-40	Dry	70	0
11-1-40	Dry	80	0

	Archuleta Reservoir Cap. 98	Hunters Lake Res. Cap. 48	Spruce Lake Res. No. 1 Cap. 88	Spruce Lake Res. No. 2 Cap. 93
May 1	98	8	18	93
Nov. 1	0	0	0	0

	Dude Ranch Reservoir Cap. 125	Road Canon Reservoir Cap. 2,400	Poage Reservoir Cap. 260	Lost Lakes Reservoir Cap. 1,066
May 1	78	2,000	118	358
Nov. 1	0	2,000	0	0

	Shaw Reservoir Cap. 638	Bristol Head Res. No. 1 Cap. 153	Bristol Head Res. No. 2	Beaver Park Reservoir Cap. 4,434
May 1	135	0	0	500
Nov. 1	0	0	0	0

	Regan Lake Reservoir Cap. 1,200	Chenoweth Reservoir Cap. 40	Eastdale Res. No. 1 Cap. 3,468	Eastdale Res. No. 2 Cap. 3,047
12-1-39	....	....	508	0
1-1-40	....	....	508	0
2-1-40	....	....	508	0
3-1-40	....	....	298	0
4-1-40	....	....	258	0
5-1-40	No Report	No Report	416	0
6-1-40	....	....	558	0
7-1-40	....	....	87	0
8-1-40	....	....	90	0
9-1-40	....	....	38	0
10-1-40	....	....	496	0
11-1-40	No Report	No Report	761	0

	Goin's Lake Reservoir Cap. 40	Humphries Reservoir Cap. 842	Trout Lake Reservoir Cap. 198	Wright's Lake or Spring Creek Res. Cap. 120
May 1	5	842	198	120
Nov. 1	0	842	0	58

	Ruby Lake Reservoir Cap. 120	Hermit Lake Res. No. 1 Cap. 360	Hermit Lake Res. No. 2 Cap. 360	Grace Lake Reservoir Cap. 605
May	96	423	360	605
Nov. 1	0	423	360	605

	Sowards Lake Reservoir Cap. 120	Goose Creek Reservoir Cap. 231	Wee Ruby Reservoir Cap. 150	Brown's Lake or Troutvale Res. Cap. 510
May 1	200	237	0	510
Nov. 1	160	0	0	460

	Fuchs Reservoir Cap. 200	Squaw Creek Reservoir Cap. 85	Bergeys Lake Reservoir Cap. 28	Metroz Reservoir Cap. 128
May 1	169	103	28	128
Nov. 1	0	0	28	0

Potatoes

The potato crop, while short in acreage, and the yield curtailed on account of inroads from Psylid, leaf wilt and shortage of water, has produced a very satisfactory volume. 5890 cars, which includes shipments in November and December, 1939, having been shipped by train and trucks compared with 5,000 cars last year, and it is estimated 4,000 cars are in storage. Some outstanding yields have been reported. Three Growers have made the 600-bushel club. These better yields were the result of pumping and artesian water. Condition of the tubers, however, is not satisfactory, as there were no killing frosts until late in October and as a result, much unripened stock was stored, which will cause a serious loss and those shipped arrived at destination in poor condition, skin broken, and bruised and discolored. They did not compare favorably with stock from other localities. The price of 60 and 65c is very discouraging to the growers and many have stored their stock in hopes of a better price. The Government has purchased 550 cars, paying the local price. This stock will be turned over to the Federal Surplus Marketing Administration.

The Psylid was controlled where spray was used and treatment of seed was some help to leaf wilt.

Mixed Vegetables Shipments

There was 576 cars of mixed vegetables, consisting of carrots, spinach, lettuce, broccoli, garden beets and turnips. These vegetables produce wonderful yields and quality was excellent. They bring good money on the market.

Field Peas

Field peas, a good money crop and a good yield, is popular among the farmers. They are a soil builder. There was 25,049 acres harvested. The crop will be disposed of mostly locally.

Cabbage

The cabbage crop was excellent, acreage normal and yield up to standard. There were no worms or insects to interfere with the quality, and the price received made it a profitable crop. 409 cars were shipped.

Cauliflower

The cauliflower was, as usual, a fine crop. Acreage and yield normal but the price of 35c a crate was very discouraging to the grower. With the cost of production, crating and transportation to shipping point, there was nothing left. 1309 cars were shipped.

Sugar Beets

The sugar beet crop was below the average. 271 cars or 10,300 tons were shipped, as compared with 350 cars last season. There was 2,014 acres harvested. The sugar content was 18%. Some very good yields were made where pumping or artesian water was available. Best yield reported was 17.5 tons per acre.

Market Garden Peas

Market garden peas was the banner crop in this division. 1,178 acres having been harvested. Some very outstanding yields were reported. One grower on 240 acres shipped 35 cars which brought $35,000. After paying expenses of producing the crop, he had a net of $25,000. This fine showing was result of an excellent yield and brought 4½ cents per pound on the market.

The average price was $2.75 per cwt. Only two days during the season was the price below cost of production. The Canning Plant at La Jara had a good campaign, having a large acreage of their own and were able to take the culls from other growers.

Lettuce

The lettuce crop was fair and quality good. Shortage of water at the critical time curtailed the yield.

Price of 50c per crate was not very satisfactory. 272 cars were shipped.

Sweet Clover

Sweet clover is a very important crop as it not only produces a good forage crop, slightly less in food value than alfalfa, but it also is a good fertilizer when plowed under green and followed with potatoes.

There was 46,793 acres in crop this year.

Alfalfa

Alfalfa produced a normal first cutting but owing to shortage of water the second cutting was very light, some fields were not cut but left for pasture.

Wild Hay

Wild hay was a 50% crop owing to water shortage. Both these crops will be consumed locally at a very fair price.

Grain

The grain crop was very short both as to acreage and yield due to poor moisture, soil conditions that did not germinate the seed, and shortage of water at the critical stage later.

The yield is not over 40% of normal and price at harvest time was $1.00 per cwt.

Live Stock

Live stock shipments out of the division will be heavy. The price of beef cattle make it very attractive for the growers and as there is an apparent shortage of feeds, most of the stockmen are cutting down their herds.

Lambs

Heavy shipment of lambs at a price of $8.00 per cwt. makes good money for the sheepman. Also the price of 30c per pound for wool, most of which has been consigned, makes this industry a very profitable one.

The division was free from serious hail losses. Only a few scattered storms were reported and they came early and caused little damage.

Vegetable Shipments

Total vegetable shipments out of the valley was 9,837 cars, consisting of the following:

Potatoes	5,890
Sugar Beets	271
Market Garden Peas	1,178
Cauliflower	1,309
Cabbage	409
Lettuce	272
Mixed Vegetables	492
Spinach	16
	9,837

Compared with 8,675 in 1939.

Improvements

In District No. 22, The Canon Ditch installed a new headgate and Parshall flume.

New headgates were installed on the Braiden overflow, The San Jose, The Seledonio Valdez and The Taos Valley.

The Manassa No. 3 installed new headgate and a 12-foot Parshall flume.

There were many minor repairs made to headgates, flumes and ditches over this district.

District No. 21 has started work on two cement diversion dams on La Jara creek and one on Alamosa creek, also the construction of a flume to carry Alamosa creek water over the La Jara creek for irrigation of lands on the south side of the creek. Also a new headgate on The Terrace Canal. Work to be done by C. C. C., water users to furnish material and C. C. C. to do the work.

District No. 25 has installed 5 new Parshall 3-foot flumes and 4 new headgates.

The Baca Grant people have constructed and enlarged approximately 100 miles of laterals on the Grant and have installed many headgates where the water is carried from the main source of supply so as to spread it over some new territory that will bring under irrigation several thousand acres of wild hay land and pasture.

District No. 35, The Trinchera Irrigation District, have installed 18 new headgates and Parshall flumes, which completes the installation of headgates and Parshall flumes on all their ditches. They are repairing and repainting 3 miles of metal flume and cleaning and enlarging 3 miles of canals. Total cost $8,811.65,

The Trinchera Farms Co. have completed the installation of headgates and Parshall flumes on all their ditches. A survey was made to relocate points of diversion on ditches where channel changes in the creeks left the original points of diversion some distance from the stream.

Generally over the division repairs and improvements to headgates, flumes and ditches, show a willingness of water users to cooperate with water officials in the administration of water.

While the season was one of the worst in several years, so far as the water supply was concerned, there was only three arrests and convictions for interference with headgates. Generally there was fine cooperation between the water users and water officials.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 4 FOR THE SEASON OF 1939

Montrose, November 10, 1939.

Mr. M. C. Hinderlider, State Engineer
State Capitol Building
Denver, Colorado

Dear Sir:

Herewith I submit my annual report for the season of 1939.

Precipitation during the fall of 1938 was high, resulting in good ground conditions.

The snow depths as shown by weekly snow cover reports were very encouraging in the early part of the winter, but when the surveys of the snow courses were made in March and April it became apparent that there would be a shortage unless late snowfall in the mountains would give an additional runoff.

After March 1 conditions grew worse instead of better. The following table showing a comparison of the precipitation at Montrose for six months with the 45-year average indicates the conditions for the whole of Division No. 4.

Month 1939	Precipitation Inches, 1939	Average Inches	Variation Inches	Percentage Variation
March	0.91	0.77	+0.14	+15
April	0.13	0.88	—0.75	—85
May	0.19	0.95	—0.76	—80
June	0.02	0.54	—0.52	—96
July	0.68	0.90	—0.22	—25
August	1.07	1.37	—0.30	—20
Total	3.00	5.41	—2.41	—45

In addition to extremely dry weather during the first four months of this period unusual dry winds prevailed. It seemed impossible for water users to get the proper amount of moisture in the soil with any amount of irrigation, and the soil dried out with unusual rapidity. On June 18 extremely heavy winds did great damage to forest land all over the division, destroying much valuable timber, and damaging fruit crops in some areas. This was followed by a heavy frost which injured the forage crops on the ranges and destroyed much summer feed for range stock.

All these conditions were responsible for a considerable shortage of many crops, especially hay and grain. The shortage was greater in natural grass crops grown on high altitude lands, and in the potato crop.

It is a very fortunate thing that all local water officials were men of experience and energy. I believe that, and the fact that the water users cooperated with them unselfishly, averted much greater losses that would have occurred if this had not been the case. It is true that there was a considerable carry-over of stored water, but nevertheless the final amount of storage would have been much less but for the mutual confidence and joint action of water users and local water officials, and to them belongs the credit of meeting a difficult situation successfully.

For the first time the Taylor Park Reservoir was filled to its total capacity of 106,000 acre feet, and the total release during the season, as shown by the statement of Jesse R. Thompson, Superintendent of the Uncompahgre Valley Water Users' Association, was nearly 80,000 acre feet. Since the Uncompahgre River and the Gunnison River were both very low during July, August and September this supply of water saved the Uncompahgre Project from very severe losses.

Following is Mr. Thompson's statement:

"Uncompahgre Project, Colorado. Season 1939.

"Under the terms of the contract between the Bureau of Reclamation and the Uncompahgre Valley Water Users' Association approved August 4, 1931, the operation and maintenance of the project was assumed by the Association on January 1, 1932.

"The project irrigation system includes approximately 600 miles of canals and laterals and requires 1500 second feet of water entering the project during periods of peak demand.

"Due to the light snowfall in the Uncompahgre watershed the peak runoff of the Uncompahgre River for the season was only 932 second feet. This made it necessary to divert water through the Gunnison Tunnel to supplement the flow in the Uncompahgre River from about April 10th to the end of the irrigation season. The flow in the Gunnison Tunnel was increased to 500 second feet on April 18th, and gradually increased to 827 second feet by the end of the month. The flow of the Gunnison Tunnel when full ranged from 935 to 950 second feet depending on the head on the gates at East Portal. The Taylor Park Reservoir was full at the beginning of the irrigation season and contained an abundance of water to meet the demands of the project.

"However, due to the limited capacity of the Gunnison Tunnel it was impossible to divert enough water through the tunnel to meet these demands. The demand for water was considerably above normal due to the dry windy season, there being practically no rainfall in the valley from the time farming started in the spring until July. The supply of water diverted to the project met demands as follows: Up to May 12th deliveries met demands; May 13th to June 20th, 110 per cent; June 21st to June 30th, 100 per cent; July 1st to July 9th, 90 per cent; July 10th to July 12th, 80 per cent; July 13th to July 14th, 75 per cent; July 15th to July 30th, 70 per cent; July 31st, 90 per cent; August 1st to 13th, 100 per cent; August 14th to 17th, 90 per cent; August 18th to September 5th, 75 per cent; September 6th, 100 per cent, with enough to meet demands the balance of the season.

"Water from Taylor Park Reservoir is diverted down Taylor River to the Gunnison River thence to the East Portal of the Gunnison Tunnel and through the tunnel to the Uncompahgre Valley. 78,600 acre feet of water was used out of the Taylor Park Reservoir the past season. Total capacity of the Taylor Park Reservoir is 106,000 acre feet plus bank storage.

"Water was delivered upon demand to the water users on an acre foot basis. The lands generally on the west side of the Uncompahgre River were furnished 5 acre feet of water for a minimum charge of $1.65 per acre. Lands generally on the east side of the Uncompahgre River, which consist principally of adobe soils were furnished 4 acre feet of water at a minimum of $1.32 per acre. Excess water was furnished at the rate of 10 cents per acre foot for all water received in excess of 5 acre feet per acre.

"Operating conditions in the project canals and laterals were generally good throughout the irrigation season. Some difficulty was experienced with the upper end of the new canal section where the M&D Canal has been moved back to eliminate the sliding hillside section. This difficulty was overcome by lining and puddling this canal section with earth. No operating troubles were experienced in connection with the Gunnison Tunnel. The water was shut out of the Gunnison Tunnel from June 12th to June 15th, inclusive, to make necessary repairs to the concrete lining on the South Canal and to allow the City of Montrose to make a new concrete intake from the South Canal to the city mains.

"Crops throughout the valley will average about normal with hay, potatoes and grain a little below normal.

"Fall weather has been favorable for crop harvesting.

"Appreciation is expressed to the office of the Division Irrigation Engineer of the State of Colorado for the efficient manner in which the diversion of waters in this section of the Western Slope have been administered."

Adjudications of water rights in nine water districts have been practically completed. For the first time Water District No. 63, comprising the Dolores River watershed from the mouth of the San Miguel River to the Utah State Line, was put under administration. Since there was no local water commissioner the work was done by this office with the help of local officials of Water Districts Nos. 42 and 61. No trouble was experienced, notwithstanding a serious shortage of water during part of the season.

The investigations of the Bureau of Reclamation for the purpose of determining storage possibilities in Water Districts 40 and 42 are being continued, and should result in some much needed development.

The following is a letter received by me from Mr. C. J. McCash, Area Engineer of the Soil Conservation Service, Grand Junction, Colorado:

"The status of the Water Facilities Program in your division is as follows:

"The Ralph M. Girling project in Delta County, which involves the laying of 5200 feet of 12-inch pipe line for an irrigation supply is under way. The materials are on the ground and the welding of the line will commence by November 10. The direct Federal cost of this job is estimated at approximately $8,700.00.

"The Cedar Mesa Reservoir Project in Delta County, which involves the rehabilitation and enlargement of an existing reservoir from a capacity of 486 acre feet to approximately 900 acre feet, has been approved subject to several conditions. The conditions will be met without any difficulties and the job can proceed. Construction will commence as soon as the reservoir is emptied next summer. The direct Federal cost of this job is estimated at $14,000.00.

"This office has completed field work on 12 additional proposed reservoir projects. The field data on these jobs will be worked up this winter and designs and estimates prepared for consideration of the people involved. These proposed projects are located on the Leroux Creek watershed principally.

"This office will keep you advised of our activities and any questions you might have regarding the program will be gladly accepted and answered to the best of our knowledge.

"We wish to take this opportunity to thank you for the assistance and suggestions you have given us.

"Now that winter is starting and putting an end to your field work, I will look forward to further helpful and interesting discussions with you along the water facilities program lines."

Under your orders of August 23, 1938, minor repairs have been made on many reservoirs in Water Districts 40 and 42. Special attention has been given to requirements necessary to safety and to the securing of accurate capacity tables, gage rods, and measuring devices in order that releases made be accurately determined and the rights of direct flow users protected.

An enlargement of the Onion Valley Reservoir storing water from Crystal Creek watershed in Water District No. 40 was completed this year, and a slight increase in storage was made during the current year. This work was done by contract under the supervision of the State Engineer's Office, and increases the storage capacity of the reservoir from 5280 acre feet to 9000 acre feet. There is under the project 5000 acres of irrigated land of high quality and there was a shortage of water which the enlargement will supply.

A new rating station was established on Surface Creek nine miles above Cedaredge under the cooperation agreement between your office and the U. S. Geological Survey. Records have been kept and ratings made since June when it was established. This station was much needed for administrative purposes.

This year a sub-office of the Department of Water Resources of the U. S. Geological Survey was established here under Mr. Rolland F. Kaser to better handle the expanding hydrographic work of this area. This arrangement is of great benefit in administration and I wish to express my appreciation for the cooperation given me by Mr. Kaser.

In the fall of 1938, a standard small shelter was installed at a point immediately below the forest service highway bridge on Taylor River about 1000 feet below the outlet of the Taylor Park Reservoir. This year staff gages were installed on Taylor River, Texas Creek and Willow Creek, the three streams discharging into the reservoir, at convenient points above.

In cooperation with the Uncompahgre Valley Water Users' Association, I have rated these streams and secured data for determining the flows into and out of the reservoir. An automatic recorder is installed in the shelter below. This will be in operation only part of the year, as extreme cold causes the still well to freeze solid in winter. However, the caretaker will make careful outside gage readings on this station, also on the inflow gages during open weather. We have found that the most accurate record of inflow in winter is obtained from daily readings of the mecurial gage height recorder of the reservoir.

The Colorado Water Conservation Board has been making some very interesting investigations of consumptive use on the Uncompahgre Valley Project during the past two years, and this data will no doubt be available in due time.

Very truly yours,

FRED S. HOTCHKISS,
Irrigation Division Engineer, Irrigation Division No. 4.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS 1939

Dist. No.	Ditches Reported	No. of Priorities	Amount of Appropriation Cu. Ft. Per Sec.	Capacity of Canals and Ditches Cu. Ft. Per Sec.	Length of Canals or Ditches in Miles	First Day Water Was Used
28	210	212	617.44	1,821	......	Apr. 20
40	502	724	3,085.81	3,891	1,239.7	Apr. 1
41	74	120	1,817.04	3,332	619.4	Mar. 1
42	298	332	3,710.92	3,952	975.2	Mar. 20
59	99	161	679.31	2,109	219.5	May 1
60	233	230	1,157.12	1,443	553.0	Apr. 1
61	14	33	80.04	103	43.8	Apr. 1
62	75	88	312.75	799	171.8	Apr. 15
68	139	141	535.65	677	218.5	Apr. 5
Totals	1,644	2,041	11,996.08	18,127	4,040.9	

Dist. No.	Last Day Water Was Used	Average No. of Days Water Was Used	Average Daily Amount in Sec. Ft.	No. Acre Ft. Used	No. Acres Can Be Irrigated
28	Sept. 5	82	572.0	94,184	29,917
40	Nov. 1	128	1,400.41	359,547	237,563
41	Oct. 31	131	1,184.90	519,942	105,518
42	Nov. 1	181	1,777.53	645,005	173,004
59	Oct. 10	83	1,538.00	255,461	24,031
60	Oct. 31	122	582.65	143,088	151,010
61	Nov. 15	170	25.25	8,503	3,874
62	Nov. 1	106	514.60	108,676	18,905
68	Nov. 2	113	320.47	72,344	24,675
Totals		140	7,915.81	2,206,750	768,497

Note—Ditches in Water District No. 63 reported with District No. 42.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL CROP REPORTS, 1939

Dist. No.	Alfalfa	Natural Grasses	Cereals	Orchards
28	53	29,823	16	.....
40	54,072	28,751	20,205	13,321
41	21,745	10,185	24,275	772
42	28,461	13,966	12,073	3,930
59	119	21,058	5	.....
60	13,142	5,323	13,138	217
61	1,400	3,446	1,244	60
62	1,430	7,836	1,699	30
68	5,418	12,361	1,549	17
Totals	125,840	132,749	74,204	18,347

Dist. No.	Market Gardening	Potatoes	Sugar Beets	Other Crops
28	11	14	....	....
40	773	2,099	4,818	29,207
41	830	3,148	2,439	8,471
42	805	1,185	344	50,110
59	....	68	....	118
60	260	620	....	5,925
61	13	8	....	21
62	30	1,047	....	2,557
68	15	74	109	610
Totals	2,737	8,263	7,710	97,019

Dist. No.	Total Irrigated	Superintendence	Repairs	Improvements
28	29,917	.....	.....	.....
40	153,246	$ 8,025	$ 32,643	$ 13,820
41	71,865	2,460	7,080	13,497
42	110,874	36,512	90,680	17,364
59	21,368	500	4,575	.....
60	38,625	8,927	20,797	2,060
61	6,192	.....	.....	.....
62	14,629	1,725	4,290	100
68	20,153	3,850	150	210
Totals	466,869	$ 61,999	$160,215	$ 47,051

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT, 1939

Dist. No.	No. in Dist.	Area of High Water Line, Acres	Capacity in Acre Feet	Quantity of Water in Reservoir May 1	Quantity of Water in Reservoir Nov. 1
40	158	3,284	43,935	36,049	1,822
42	67	1,967	15,962	.....	.....
59	1	2,033	108,300	77,080	28,340
60	2	392	4,784	4,585	726
Totals	228	7,676	172,981	117,714	30,888

Dist. No.	First Day Water Used	Last Day Water Was Used	Average No. Days Water Was Used	Average Daily Amount in Sec. Ft.	No. Acre Ft. Carried
40	Apr. 27	Nov. 4	46	388.33	34,876
42	Apr. 14	Oct. 26	50	107.70	10,770
59	July 11	Oct. 30	111	454.27	100,847
60	May 10	July 23	62	35.28	4,375
Totals			76	985.58	150,868

Dist. No.	Superintendence	Repairs	Improvements
40	$ 2,742.00	$ 5,712.00	$ 11,160.00
42	....	....	....
59	2,000.00	5,200.00	7,500.00
60	....	....	....
Totals	$ 4,742.00	$ 10,912.00	$ 18,660.00

This tabulation does not include reservoirs whose water is used for other purposes than irrigation.

CROP AND MARKETING CONDITIONS

Alfalfa

The acreage of alfalfa has been reduced this year partly on account of the necessity of reseeding, more largely, perhaps, on account of the restriction of grazing on the National Forest ranges and the consequent loss of market by the growers. Prices for hay were low, with the prospect of a large holdover.

Seed Crops

Sweet clover and red clover seed crops have been raised to a considerable amount the past few years with a good profit. This year, however, the demand is poor and conditions not good.

Potatoes

The yield of potatoes this year was low, partly on account of weather conditions. Bacteria wilt also took a heavy toll, and constitutes a serious menace to the industry unless a remedy can be found. Prices, notwithstanding the short crop, were low, ranging from 70c to 85c per hundred weight.

Onions

This crop, which is largely grown in the Uncompahgre and Gunnison Valleys, has at times paid excellent profits. This year, with a large yield, prices are so low that few have been shipped. The price ranges from 45c to 50c per hundred, which is below cost of production.

Cereals

Grain crops show a probable shortage in yield of 25%, but prices, especially for wheat, are very good. Corn growing shows a tendency to increase and is largely used for feeding, either to range stock or for fattening.

Sugar Beets

The beet growing industry shows a tendency to increase in acreage, but conditions of growth were bad this year and the yield below average.

Market Garden Peas

The growing of market garden peas is a new industry, about 300 or 400 acres having been grown this year with good results. It is estimated that 2000 acres will be grown next year, a large part under the Onion Valley Reservoir recently enlarged. These lands, in the vicinity of Crawford, Colorado, lie at an elevation above 6000 feet, and have proven excellent for this crop. The vines provide excellent hay when cut, or may be plowed under with good fertilizing value.

Fruit Crops

Stone fruits—sweet cherries, peaches, apricots and prunes, did well and brought fair prices, although high winds just before picking damaged the sweet cherries considerably.

Apples did not yield as well as last year, due to the fact that this was an ''off year'', it being usual for a heavy yield year to be followed by one with a light yield. Prices were low, due to a large general supply and the failure of the European market on account of war.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 4 FOR THE SEASON OF 1940

Montrose, January 15, 1941.

Mr. M. C. Hinderlider, State Engineer
Capitol Building
Denver, Colorado

Dear Sir:

Herewith I submit my annual report for the year 1940.

For the first time in my experience in this division we had two very dry years in succession. The dry season of 1939 resulted in a depletion of ground waters and the withdrawal of most of the reserve of stored water in reservoirs. This was particularly true of the Grand Mesa area in Water Districts 40 and 42, where there was no holdover. However, unusually heavy snows in April helped that territory. For the first time during the five years that snow survey records have been kept, one snow course, that at Alexander Lake, showed a greater water content in the snow on May 1, 1940, than on April 1, and all courses in the area showed a higher water content May 1, 1940, than on May 1, 1939. This condition was of great importance, since after May 1 the warmer weather would cause a more rapid melting of snow and a consequent higher proportion of runoff than if snow of the same water content had melted more slowly; while total storage was not equal to that of 1939, because of lack of holdover, the amount stored in 1940 in Grand Mesa reservoirs was greater than for the preceding year.

Two reservoirs in Water District 40 that had been improved previously were filled to capacity. The Onion Valley Reservoir enlargement, made under supervision of the State Engineer's office, increased its storage from 5300 acre feet to approximately 9200. The reconstructed Fruit Growers' Reservoir, built by the Bureau of Reclamation, was filled to its capacity of 4600 acre feet.

The Taylor Park Reservoir in Taylor Park which supplies supplemental water for the Uncompahgre Valley project began storage about October 15, 1939, with 28,400 acre feet holdover. The maximum amount of water in the reservoir on July 4 was 84,500 acre feet. The releases of stored water amounted to 75,420 acre feet as shown by the annexed statement of Jesse R. Thompson, Project Superintendent. For a time it appeared that the total storage would be drawn, but the necessity of further releases was ended by late September rains. Following is Mr. Thompson's statement:

"Uncompahgre Project, Colorado. Season of 1940.

"Under the terms of the contract between the Bureau of Reclamation and the Uncompahgre Valley Water Users' Association approved August 4, 1931, the Operation and Maintenance of the project was assumed by the Association on January 1, 1932.

"The project irrigation system includes approximately 650 miles of canals and laterals and requires 1500 second feet of water entering the project during periods of peak demand.

"Although the snowfall in the Uncompahgre water shed was above normal the peak runoff was only 1430 second feet at Colona. This occurred on June 2, 1940. On June 5, the water had dropped to 1100 second feet while the maximum up to May 27, was only 1006 second feet. For this reason it was necessary to turn water through the Gunnison Tunnel to supplement the flow in the Uncompahgre River on April 5. From this time on throughout the season water was diverted through the Gunnison Tunnel to supplement the flow of the Uncompahgre River. The flow through the Gunnison Tunnel was increased to 715 second feet on April 11. The flow continued around this amount with the exception of a few days in June when it was lowered to as low as 425 second feet. Soon thereafter it was raised again, reaching a peak of 998 second feet on July 28, 1940. The Taylor Park Reservoir contained 85,400 acre feet at the beginning of the irrigation season and was lowered to 9980 acre feet on September 22. At this time rains throughout the valley and surrounding area were sufficient to raise all streams and meet demands. Water was turned out of Taylor Park Reservoir to supplement the flow of the Gunnison River on July 4, 1940. By July 10 there was 650 second feet being diverted from the reservoir.

"Due to the limited capacity of the Gunnison Tunnel it was not possible to divert enough to meet project demands. There was no restrictions on the delivery of water up to June 17. On June 18 it was necessary to cut the delivery to a percentage basis. Deliveries on this basis ranged from 125% on June 18 to as low as 70% on August 16 to 19 and again on September 12 to 14, inclusive. Soon thereafter we were able to deliver water on a 100% basis and continued to do so until September 22 at which time general rains made it possible to meet all demands.

"Water from Taylor Park Reservoir is diverted down Taylor River to the Gunnison River thence to the East Portal of the Gunnison Tunnel and thence through the tunnel to the Uncompahgre Valley. Not including inflow to the reservoir 75,420 acre feet of water was used out of the reservoir the past season. The total capacity of the Taylor reservoir is 106,000 acre feet plus bank storage.

"Water was delivered on demand to the water users on an acre foot basis. The lands generally on the west side of the Uncompahgre River were furnished 5 acre feet of water for a minimum charge of $1.65 per acre. Lands generally on the east side of the Uncompahgre River, which consists mostly of adobe soils, were furnished 4 acre feet of water at a minimum of $1.32 per acre. Excess water was furnished at the rate of 10c per acre foot for all water received in excess of 5 acre feet per acre.

"Operating conditions of the project canals and laterals were good throughout the irrigation season there being no interruption of flow in major canals due to sliding banks, floods, etc. No operating troubles were experienced in connection with the Gunnison Tunnel. The water was out of the tunnel on June 13 to make an inspection prior to the usual heavy run of water. At this time miscellaneous minor repairs were made to the concrete lining and the automatic gages in the tunnel were cleaned preparatory to the usual reading to determine flow conditions in the tunnel. On June 15 the water was again turned out of the tunnel and a reading taken of the tunnel gages. On August 20 the water was again turned out of the tunnel to allow local officials together with Bureau Engineers to inspect the tunnel preparatory to planning work for the coming winter in connection with the rehabilitation or tunnel betterment program.

"Crops throughout the valley were a little below normal.

"Fall weather was unfavorable to crop harvesting there being quite a loss of hay and beans due to extended rainy weather.

"We again express our appreciation for the cooperation and efficient manner in which Mr. Fred Hotchkiss, Division Irrigation Engineer of the State of Colorado, has administered the diversion of water in this section of the Western Slope."

Notwithstanding the increase of flow of the Gunnison River due to the release of Taylor Park Reservoir water during the low water season, there was a shortage of water to supply the Redlands Power Canal near the mouth of the river. The Redlands project is designed to use 600 second feet to furnish power for lifting 70 second feet to supply irrigation water. The project also produces electric current to supply a portion of the demand of the City of Grand Junction. The rating station on the Gunnison River near Grand Junction located one-half mile below the Redlands diversion is so arranged as to record the combined flow of the stream and the canal. The shortage of water began July 2 this year. On July 4 the turbine was running below speed; July 7 rotation of water became necessary, and from July 12 to about September 1 the available supply was below 400 second feet. For two months from July 13, it was necessary to buy power for pumping. This power cost $2,025.00 in 1940. In 1939 power purchases ran slightly over $3,300.00.

The Grand Valley Reclamation Project which draws its supply of water from the Colorado River above Palisade also experienced considerable shortage, notwithstanding the fact that water from compensatory storage was used to supply an amount equivalent to the transmountain diversion. Some trouble was caused also by the practice of the Public Service Company of storing the flow of the Colorado River during a part of each day at the Shoshone Plant above Glenwood Springs, and then to release it during the period of peak load on its lines. This fluctuation has failed to ''smooth out'' in the 60 to 75 miles to the point of diversion of the Project canal and other large canals in the lower valley, making it very difficult to maintain a steady flow and not leaving a sufficient head at times to fill the priorities.

Snow Surveys

The snow surveys conducted by the Soil Conservation Service in cooperation with State and Federal Agencies issue monthly reports during winter and spring months. There are 15 courses on watersheds of this division, or on closely adjacent drainage. They have been of great value in determining the probable runoff of the watersheds on which they are located.

Repairs and New Projects

Numerous small storage projects in Water Districts 40 and 42 were built many years ago by users whose means were very limited. Part of this construction, notably outlet conduits and control valves, were of a very flimsy and temporary nature, and it has been a difficult problem to secure such repair and improvement as would safeguard the public and at the same time come within the owners' ability to pay. This year repairs have been made on a number of reservoirs, consisting principally of increasing the thickness of the earth fill on Anderson No. 1 and Bull Creek Nos. 4 and 5 and the installation of a new conduit and control on the Sunset reservoir, all in Water District No. 40.

Within the past year nearly all the reservoirs whose administration is in charge of this department have installed gage rods and furnished capacity tables in conformity with orders from your office.

The Hallenbeck Reservoir, located on the Kannah Creek watershed, with a capacity when completed of 800 acre feet, was partly constructed and filled to approximately 400 acre feet. The work was done by the owner with his own equipment and no cost data has been given.

The Juniata Reservoir, located in the same area, was repaired under orders from the State Engineer. This reservoir was in bad condition in 1939 due to overfilling, seepage under the lower toe of the dam, and erosion of the lower toe on account of the conduit not extending to a sufficient distance below the lower toe. All these defects were corrected by widening and deepening the spillway, installing drains under the lower toe, and extending the conduit. The reservoir was filled to the allowed capacity and the dam seemed to be in excellent condition throughout the season.

Proposed new work for which plans have been prepared are the installation of a new conduit and enlargement of the Park

Reservoir in District 40 at an estimated cost of $15,000.00, and the rehabilitation and enlargement of the Cedar Mesa Reservoir in the same district. The Park Reservoir work is to be financed by a loan from the Wichita Bank for Co-operatives. The dam is to be raised to a height of 46 feet with a storage capacity of about 3,300 acre feet. The Cedar Mesa project, estimated to cost $14,000.00, is to be constructed by the Soil Conservation Service under the Water Facilities Act.

The Spring Creek Reservoir on East Muddy Creek, a preliminary survey of which was made under direction of the State Engineer in 1934, is under consideration for construction as a Bureau of Reclamation Project. The plans call for the enlargement and extension of the Fire Mountain Canal to cover about 2,500 acres of additional land, the canal to have a carrying capacity of 140 second feet and the reservoir a capacity of 10,000 acre feet.

Crop Yields and Prices

Crop yields in this division were about normal.

Prices on stone fruits, including sweet cherries, apricots and peaches, were fairly satisfactory. Large quantities were sold directly to truckers to be hauled to the prairie states. It seems that this method of bulk handling is more profitable to the growers than sorting, packing and shipping in car lots through commission firms.

The apple crop, while large and of good quality, is moving very slowly at low prices, probably due to a failure to reach the European market which formerly took a large part of the apple crop. Average prices of orchard run apples is about $20.00 per ton.

Grain yields were good, but prices low. There seems to be a continuing trend toward replacing small grain crops with plantings of corn. Alfalfa crops were normal with present prices of $6.00 to $7.00 per ton. The pinto bean acreage has been increasing steadily for several years and has proven profitable, but prices this year were only $2.00 per hundredweight. Fall storms caused some losses on this crop.

Potato yields were only fair and prices low. Present prices are about 65 cents per cwt. in car lots.

Prices for cattle and sheep were good, but the price of hogs was low.

The installation of new measuring devices has improved administration. Numerous small Parshall flumes and one large size 12 foot Parshall with a capacity of 350 second feet were put in under supervision of this office and more have been ordered.

There are several streams on which there is considerable reservoir storage where rating stations with automatic recorders are greatly needed. This is especially true on some streams where large numbers of beaver have built dams that interfere with the normal stream flow, especially during dry years.

Notwithstanding acute water shortage, water users showed a general disposition to cooperate with the water officials. No prosecution for interference with administration was necessary.

I enclose a tabulation of Water Commissioners' Annual Reports.

Very truly yours,

FRED S. HOTCHKISS,
Irrigation Division Engineer, Irrigation Division No. 4.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS, 1940

Dist. No.	Ditches Reported	No. of Priorities	Amount of Appropriation Cu. Ft. Per Sec.	Capacity of Canals and Ditches Cu. Ft. Per Sec.	Length of Canals or Ditches in Miles	First Day Water Was Used
28	57	294	583.32	1,805	173	Apr. 15
40	463	690	3,085.77	4,001	1,194	Mar. 1
41	76	138	1,870.46	3,345	595	Mar. 1
42	298	320	3,792.40	4,096	1,317	Mar. 1
59	99	161	679.31	2,109	220	May 1
60	265	352	1,900.38	1,597	637	Mar. 1
61	14	33	84.50	131	51	Apr. 1
62	75	88	312.75	799	172	Apr. 15
68	138	180	649.63	737	205	Apr. 16
Totals	1,485	2,256	12,958.52	18,620	4,564	

Dist. No.	Last Day Water Was Used	Average No. of Days Water Was Used	Average Daily Amount in Sec. Ft.	No. Acre Ft. Used	No. Acres Can Be Irrigated
28	July 25	95	408.50	77,884	28,305
40	Nov. 1	121	1,509.00	365,063	229,798
41	Oct. 31	198	1,384.87	547,461	122,905
42	Nov. 1	146	1,653.35	481,418	176,926
59	Oct. 10	83	1,538.00	255,461	24,031
60	Nov. 1	145	438.04	127,232	153,870
61	Nov. 1	171	29.60	10,149	9,333
62	Nov. 1	106	514.60	108,676	18,905
68	Oct. 8	104	387.03	80,263	25,648
Totals			7,862.99	2,053,307	789,721

Ditches under administration in Water District No. 63 reported with Water District No. 42.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL CROP REPORTS, 1940

Dist. No.	Alfalfa	Natural Grasses	Cereals	Orchards
28	78	28,132	81	.....
40	52,459	27,816	19,846	13,117
41	21,308	4,151	31,851	1,071
42	26,387	13,949	11,351	6,689
59	119	21,058	5	.....
60	13,612	6,415	12,858	224
61	1,305	3,742	1,124	54
62	1,430	7,836	1,699	30
68	5,096	13,870	1,816	23
Totals	121,794	126,969	80,631	21,208

IRRIGATION DIVISION NO. 4—Continued

Dist. No.	Market Gardening	Potatoes	Sugar Beets	Other Crops
28	.....	14	.....	.....
40	834	1,990	4,231	29,029
41	812	3,140	2,443	7,533
42	2,153	769	654	53,548
59	.....	68	.....	118
60	355	651	40	7,231
61	11	8	.....	47
62	30	1,047	.....	2,557
68	21	57	99	206
Totals	4,216	7,744	7,467	100,269

Dist. No.	Total Irrigated	Super-intendence	Repairs	Improvements
28	28,305	......	......	......
40	149,322	$ 7,850	$ 29,101	$ 4,169
41	72,309	14,507	94,158	8,143
42	115,500	78,645	70,913	58,652
59	21,368	500	4,575	......
60	41,386	8,780	22,203	5,120
61	6,291	......	......	......
62	14,629	1,725	4,290	100
68	21,188	4,993	625	......
Totals	470,298	$117,000	$225,865	$ 76,184

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT, 1940

Dist. No.	No. in Dist.	Area of High Water Line, Acres	Capacity in Acre Feet	Quantity of Water in Reservoir May 1	Quantity of Water in Reservoir Nov. 1
40	157	3,358	46,809	30,975	3,244
42	67	1,150	18,862	.....	.....
59	1	2,033	106,200	45,060	14,510
60	2	392	5,034	1,842	1,908
Totals	227	6,933	176,905	77,877	19,662

Dist. No.	First Day Water Was Used	Last Day Water Was Used	Average No. Days Water Was Used	Average Daily Amount in Sec. Ft.	No. Acre Feet Carried
40	4-11	10- 6	45	395.82	35,539
42	5-14	10-15	54	110.45	11,863
59	7- 4	9-20	79	477.34	75,420
60			60	36.46	4,375
Totals				1,020.07	127,197

Dist No.	Super-intendence	Repairs	Improvements
40	$ 2,847.00	$ 3,645.00	$ 4,480.00
42	......	......	......
59	......	......	......
60	......	......	......
Totals	$ 2,847.00	$ 3,645.00	$ 4,480.00

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 5 FOR THE SEASON OF 1939

Glenwood Springs, Colorado, November 30, 1939.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith my annual report as Division Irrigation Engineer for Irrigation Division No. 5 for the year ending November 30, 1939.

Administration

The Irrigation season just completed was undoubtedly one of the driest this Division has ever experienced. The precipitation and the run off of streams was below normal. This year ditches on some streams were shut off for the first time in history.

The Division Engineer has been kept very busy this season; it has been necessary to do a great deal more traveling than in previous years. This year a total of 6,401 miles has been traveled, an average of 533 miles per month; also about 160 miles by horse back.

The Administration of water rights in the Division has been improved this season by the installation of many new headgates and Parshall Flumes. Most of this improvement has been in Water District Nos. 70 and 38.

Preparations are under way for a general adjudication to be held for District No. 52 this winter, all the field work has been completed. An adjudication was held this summer for the Divide Creek, Section of Water District No. 45. This adjudication covered flood or high water rights and included a re-survey of acreages.

Administration Costs

Cost of Administration of Division No. 5 for the year of 1939 was $7,409.02. This includes salaries of all commissioners and their deputies. 137,793 acres were irrigated at a cost of .053 cents per acre for services of water commissioners and their deputies.

Dist. No.	Acres Irrigated	Commissioners' Fees	Deputies' Fees
37	26,422	$ 834.00	....
38	36,220	858.00	$ 424.95
39	20,554	1,248.00	100.00
45	30,640	984.00	1,145.00
52	3,983	324.00	....
53	11,985	396.00	104.97
70	7,989	990.00	....
Totals	137,793	$5,634.00	$1,775.02

Climatological Data

Following is the temperatures and precipitation as recorded at Rifle: Elevation 5,355, and at Glenwood Springs: Elevation 5,823.

RIFLE

	May	June	July	Aug.	Sept.	
Maximum Temp.	87	93	100	99	90	
Minimum Temp.	30	35	42	40	34	
Precipitation						Total
1939	.15	.40	.51	.22	2.02	3.30
1938	1.10	.77	.31	.45	1.71	4.34
1937	.25	.33	2.17	.54	.71	4.00
1936	.00	.05	1.54	1.50	.45	3.54
1935	1.95	.00	.90	.32	1.01	4.18

GLENWOOD SPRINGS, COLORADO

	May	June	July	Aug.	Sept.	
Maximum Temp.	88	92	100	95	89	
Minimum Temp.	32	32	45	43	35	
Precipitation						Total
1939	.95	1.50	1.84	.63	2.43	7.35
1938	2.53	3.45	0.45	1.44	2.14	10.01
1937	1.15	0.92	4.51	2.31	.96	9.85
1936	0.49	0.63	2.06	1.65	1.09	5.92
1935	2.54	0.50	0.88	1.46	2.89	8.27

This has been one of the driest years as far as rainfall is concerned that this division has ever experienced; from May 1st to June 1st, .55 of an inch of rain fell in the Rifle District, and from June 1st to July 30th, a period of 59 days, only .10 of an inch of rain fell in the same district; in the Glenwood vicinity between June 1st and July 30th, 1.07 of an inch of rain fell.

It will be seen in the above table that from May 1st to Sept. 30th inclusive at Glenwood Springs in 1938 a total of 10.01 inches of rain fell as against 7.35 inches in the same period in 1939, a decrease of 2.66 inches. At Rifle in the same period, 4.34 inches in 1938 and 3.30 inches of rain fall in 1939, a decrease of 1.04 inches.

Temperatures during the past season have been above normal, at some points reaching the highest of record.

On the 15th of June, winds of very high velocity were general throughout the division. Considerable damage resulted to trees in the national forests; telephone and telegraph lines were blown down; many fruit trees were damaged, and many small buildings on farms were destroyed.

On the 19th of June a killing frost covered almost the entire division; in some districts freezing potatoes as much as two inches into the ground, killing beans, stunting the first cutting of alfalfa and damaging fruit.

Snow Report

Following is the average snow depth and water content of 19 snow courses on the Colorado River drainage above Grand Junction for the years 1938 and 1939 for the first of February, March, April and May, also the averages for the past four years.

	Average Snow Depth			Average Water Content		
	Four Year Avg.	1938	1939	Four Year Avg.	1938	1939
Feb.	35.6	37.9	40.9	8.5	9.4	9.9
Mar.	44.7	40.4	48.1	11.9	11.3	12.8
Apr.	48.2	52.1	45.8	14.4	15.5	14.0
May	29.0	38.3	25.9	11.2	14.8	10.2

The above shows that on May 1, 1939, on the Colorado River drainage above Grand Junction, the water content of snow as indicated by the 19 snow courses was 10.2 inches, which is nine percent less than the average was for the past four years and 31 percent less than it was in 1938. This shows that the prospects for irrigation water were definitely poorer than they had been during the past four years; however, it was almost impossible to convince the farmers that this was true. Most farmers believed that we were going to have a good runoff, basing their belief on the fact that there was much snow in the hills. They did not take into consideration that although there was considerable snow in the mountains, it did not have the water content of previous years; consequently, many farmers put in crops that they otherwise would not have planted and due to the lack of water many of these crops were complete failures.

From April to September inclusive, the runoff of the Colorado River of Glenwood Springs bears out the predictions of the snow survey. The following shows the runoff for the years of 1934, 1937, 1938 and 1939.

RUN-OFF OF COLORADO RIVER, ACRE-FEET

	1934	1937	1938	1939
April	103,000	97,430	168,000	146,800
May	344,500	429,300	538,800	583,200
June	164,000	342,700	895,300	420,800
July	57,190	173,900	296,700	124,900
August	56,660	75,920	106,000	66,610
September	42,460	65,480	113,100	51,520
	767,810	1,184,730	2,117,900	1,393,830

The runoff in acre-feet in 1939 in the above mentioned months was 34 percent less than in 1938 checking out very closely with the statement in the snow report that on May 1, 1939, there was 31 percent less water content in the snow than there was on May 1, 1938. A comparison of the runoff in 1939 to that of 1934, which year has the least runoff of any on record, shows that in 1939 there was 45 percent more runoff over the same period than there was in 1934.

Reservoir Storage

Reservoir storage this year was about normal; on May 15th, there was 11,560 acre-feet in storage in 19 reservoirs in this division; besides this amount there were a few very small reservoirs filled on which there is no record. By November 1st, all of the 19 reservoirs were dry, but usually there will be a carry over until the next year of about 1,000 to 1,500 acre-feet.

In order to conserve water one of the largest reservoir companies (The Grass Valley Reservoir Company, storage 3,900 acre-feet) ran their reservoir water only every other week. In the latter part of the season they also restricted the use of the water to sugar beets and potatoes, letting their other crops dry up such as alfalfa, fruits, corn and small grains.

Range Conditions

During the early spring and up to about June 15th, the livestock ranges were in good condition; but during the long dry spell of June and July the ranges were burned brown by the sun. Cattle and sheep were moved to the high mountain ranges weeks earlier than in previous years; conditions on the high ranges were not much better than on the lower ranges. Many sheep were shipped to market earlier this year because of lack of feed on the ranges. Cattle have been able to withstand the unfavorable conditions fairly well and cattle coming off the ranges this fall look well-filled-out with good solid flesh perhaps due to the hard dry feed they had been on all summer. Sheep prices have been fair and cattle prices good this fall.

Due to the dry conditions many forest fires were reported and hundreds of acres of valuable timber and grazing lands were destroyed before the fires were brought under control.

Potatoes

Potato yield this year is about 50 percent of normal mostly due to the frost in June and to some extent by shortage of water for irrigation. Prices have been somewhat better than last year.

Sugar Beets

Sugar beet acreage this year is somewhat less than in 1938. The yield averaged about 15 tons per acre.

Alfalfa

Alfalfa acreage is about normal but the yield is only about 50 percent of normal. The frost in June stunted the first cutting. The second cutting was very poor due to shortage of rain fall and of water for irrigation. At one time early this fall in the Rifle Section, cattlemen were bidding $12.00 per ton for alfalfa. September rains helped pastures, and closer shipping by stockmen have now brought the price down to from $8.00 to $10.00 per ton.

New Construction and Investigations, Bureau of Reclamation

Construction

Construction on the Colorado-Big Thompson project is so far limited to the Green Mountain Dam, which is located on the Blue River about 16 miles southeast of Kremmling, Colorado. This reservoir is to be used to replace water diverted to the eastern slope that would be required by prior rights along the Colorado River. The Dam will be an earth filled dam, 270 feet high when completed. The spill-way will have a capacity of 25,000 cubic feet per second. A hydro-electric plant will be constructed below the dam to utilize the flow of the Blue River and water stored in the reservoir for the generation of electrical energy. When completed the reservoir will have a capacity of 152,000 acre-feet of water; 52,000 acre-feet will be available as replacement in Western Colorado, 100,000 acre-feet will be used for power purposes.

Bids were recently opened on the Continental Divide Tunnel which were considerably higher than the estimates. The contract has not been let at this writing.

Investigation

The Bureau of Reclamation continues its investigation of the following projects in Irrigation Division No. 5.

Rifle or Hunter Mesa Project	18,000 Acres
Silt Project	7,700 Acres
Troublesome Project	10,000 Acres

Water Facilities Program

The principal need of Irrigation Division No. 5 is a number of small reservoirs on small streams. It was hoped that the Water Facilities Program would be able to build a number of these reservoirs but there are so many obstacles in the matter of eligibility of the applicant, that at present no reservoirs have been approved in this division. However, two irrigation supply ditch projects were approved. The direct federal cost of these projects is estimated at $7,620.00. Construction is about 80 percent complete on one of the projects which involves the laying of approximately 1,400 feet of 18-inch pipe. Bids have been awarded for the materials and supplies for the other project, construction of which will start about November 15th. This project also involves the laying of a supply pipe line.

At present the Water Facilities have a party in the field in Eagle County, performing a survey of another irrigation supply ditch.

Municipal Water Supply Improvements

The City of Rifle have under construction a filtration plant and auxiliary pumping plant from the Colorado River. The city has a direct flow right from Beaver Creek for 1.0 cubic foot per second but the city has out-grown this amount and it has become necessary to get a supplemental supply of which the Colorado River was the only source. Both the Colorado River and Beaver Creek water will be run through the filtration plant thence into the storage reservoir. The project consists of a 600,000 gallon concrete storage reservoir where the filtered water will be stored before turning into the city mains. The filtration plant has a capacity of 1,600,000 gallons in 24 hours. The pumping plant from the Colorado River will be electrical and will deliver 450 gallons per minute of water through a 4,700 foot steel pipe line of 8-inch diameter. The total cost of the project will be $32,600. This is a much needed improvement and will greatly improve the quality of the city water.

Trans-Mountain Diversion

Following is a report of the Trans-Mountain Diversions from Division No. 5 to Divisions Nos. 1 and 2:

Division No. 1

Grand River	18,561	Acre-feet
Berthoud	883	Acre-feet
Moffat Tunnel	31,134	Acre-feet
East Hoosier	320	Acre-feet
West Hoosier	158	Acre-feet
Boreas Pass	......	Acre-feet
Total	51,056	Acre-feet

Division No. 2

Twin Lakes Tunnel	35,353	Acre-feet
Busk-Ivanhoe Tunnel	5,353	Acre-feet
Ewing Ditch	929	Acre-feet
Wurtz Ditch	1,483	Acre-feet
Columbine Ditch	1,239	Acre-feet
Fremont Pass Ditch	1,097	Acre-feet
Total	45,454	Acre-feet
Grand Total	96,510	Acre-feet

Yours very truly,

L. C. FINLEY, Division Engineer.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORT FOR THE IRRIGATION SEASON OF 1939

IRRIGATION DIVISION NO. 5

District No.	No. of Ditches Reported	Amount of Appropriation Cu. Ft. Per Sec.	Capacity of Canal	Length of Main Ditch in Miles	First Day Water Was Used	Last Day Water Was Used
36	...	....	....	....	....	....
37	215	1,712.13	1,765.59	342.00	May 15	Nov. 1
38	128	993.27	1,440.00	268.35	May 1	Oct. 15
39	129	593.09	769.3	223.75	Mar. 28	Oct. 31
45	53	667.92	886.10	223.0	Apr. 10	Oct. 1
50	...	....	....	....	....	....
51	...	....	....	....	....	....
52	92	119.92	395.00	44.17	Apr. 15	Oct. 10
53	60	262.45	....	63.3	Apr. 20	Oct. 20
70	60	162.95	313.00	87.75	Apr. 1	Oct. 29
Totals	737	4,511.73	5,568.99	1,252.32		

District No.	Average No. of Days Water Was Carried	Average Daily Amt. Diverted in Sec. Ft.	No. Acre-Ft. Used from Stream	No. of Acres That Can Be Irrigated	Alfalfa	Natural Grasses
36	...	......	......	11,500*	......	......
37	138	893.00	277,420	29,485	11,910	9,431
38	111	878.70	225,398	36,220	22,395	5,031
39	122	341.2	100,078	25,612	10,445	3,096
45	65	260.06	28,338	38,718*	......	......
50	...	......	......	21,400*	......	......
51	...	......	......	41,100*	......	......
52	43	161.74	15,433	7,217	1,275	2,367
53	157	178.50	53,305.2	15,945	3,360	7,525
70	80	125.80	27,626.9	17,560	5,557	533
Totals	102	2,839.0	677,599	244,757	54,942	27,983

District No.	Cereals	Orchards	Market Gardens	Potatoes	Sugar Beets	Beans	Peas
36	....	....	....	....	....	....	....
37	3,820	....	303	1,575	....	....	258
38	5,500	....	....	3,294	....	....	....
39	3,733	500	309	1,261	1,661	73	....
45	....	....	....	....	....	....	....
50	....	....	....	....	....	....	....
51	....	....	....	....	....	....	....
52	306	....	....	35	....	....	....
53	375	....	15	170	....	30	150
70	1,353	4	17	60.5	11	447	....
Totals	15,087	504	644	6,395	1,672	550	408

District No.	Cabbage	Other Crops	Total Irrigated	Superintendence	Repairs	Improvements
36	....	....	8,400*	.....	.....	.....
37	....	24	26,422	.....	$19,937	.....
38	....	....	36,220	.....	.....	.....
39	....	5	20,554	$ 4,510	15,910	$ 4,020
45	....	....	30,640*	.....	.....	.....
50	....	....	9,100*	.....	.....	.....
51	....	....	22,180	.....	.....	.....
52	....	....	3,983	.....	1,516	.....
53	....	360	11,985	.....	2,425	.....
70	....	6	7,989	.....	2,115	400
Totals	....	395	177,473	$ 4,510	$41,903	$ 4,420

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*Estimated by Division Engineer.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 5 FOR THE SEASON OF 1940

Glenwood Springs, Colorado, November 30, 1940.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith my annual report as Division Irrigation Engineer for Irrigation Division No. 5 for the year ending November 30, 1940.

Administration

In my report a year ago, I stated that 1939 undoubtedly was the driest season this Division had ever experienced, now I must start off by saying that 1940 was even drier than the previous year.

The administration of water rights in the Division has further been improved this season by the installation of 21 new Parshall Flumes and 28 new Steel Headgates. Most of this improvement has been in Water Districts Nos. 38 and 45.

Preparations are under way for an adjudication this winter for the Garfield Creek Section of Water District No. 45 and the Elk Creek Section of Water District No. 39. These adjudications are to cover flood or high water rights and include a re-survey of acreages.

Two new Water Commissioners were appointed this year: Mr. Lester Coulter was appointed Commissioner of Water District No. 45 to succeed Mr. Frank Taughenbaugh, who resigned early this spring; Mr. Ralph Kelker of Kremmling was appointed Commissioner of District No. 50.

Due to the construction of two new reservoirs in District No. 50, and the consequential complications in the delivery of water because of reservoir storage and releases it was found necessary that a Water Commissioner be appointed. He, however, was appointed so late in the year that I did not require him to make an annual report.

On July 28th, the Colorado Public Service Company's Shoshone Plant notified me that the flow in the Colorado River had fallen below their adjudicated amount and requested me to shut off the junior rights above their plant. Junior rights which included transmountain diversions were closed on July 29th with exceptions of water being diverted by the City of Denver through the Moffat Tunnel and Jones Pass, which were compensated by the release of water from the Williams Fork Reservoir. On August 2nd, Mr. M. C. Hinderlider advised me that the Government Highline Canal at Grand Junction was short 165 second feet, therefore, the Twin Lakes Diversion was shut off. But with all Junior rights shut off, the Colorado River was still below the necessary amount to fill the Highline Canal adjudication.

On August 16th, a meeting was held in Hot Sulphur Springs for the purpose of coming to some understanding as to how the releases of water should be made from the Williams Fork Reservoir. Mr. Potts, who represented the City of Denver, suggested that instead of releasing the same amount at the reservoir that was being diverted through the Moffat and Jones Pass Tunnels from day to day, he would be in favor of turning out 100 second feet from the reservoir to run until the amount then in storage was exhausted, we to give the City of Denver credit for the amount then in storage, the City to continue their diversions until they had diverted that amount. It was agreed by all present that this would be the best way, as it would give a larger flow in the Colorado River at a time when it was badly needed; also it would eliminate the constant changing of the amount being released from the reservoir. Those attending the meeting were:

M. C. Hinderlider, State Engineer; H. L. Potts, Water Rights Engineer, City of Denver; F. C. Merriell, Colorado River Conservation Disrict; W. J. Chiesman, Superintendent, Government Highline Canal; C. E. Jansen, Hydraulic Engineer, Colorado Public Service Co.; L. C. Finley, Division Irrigation Engineer.

Administration Costs

Cost of Administration of Division No. 5 for the year of 1940 was $6,977.00. This includes salaries of all commissioners and their deputies. 142,978 acres were irrigated at a cost of .049 cents per acre for services of Water Commissioners and their deputies.

Dist. No.	Acres Irrigated	Commissioners' Fees	Deputies' Fees	Total
37	26,831	$ 708.00	......	$ 708.00
38	37,175	1,026.00	$ 350.00	1,376.00
39	20,121	1,284.00	......	1,284.00
45	25,749	540.00	1,125.00	1,665.00
50	9,100	264.00	......	264.00
52	4,160	216.00	......	216.00
53	11,765	456.00	......	456.00
70	8,077	1,008.00	......	1,008.00
Totals	142,978	$5,502.00	$1,475.00	$6,977.00

Climatological Data

Following is the temperatures and precipitation as recorded at Rifle: Elevation 5,355; and at Glenwood Springs: Elevation 5,823.

RIFLE

	May	June	July	Aug.	Sept.	Total
Maximum Temp.	89	98	102	101	94	
Minimum Temp.	33	32	46	44	38	
Precipitation						
1940	.40	.23	.86	1.69	2.06	5.24
1939	.15	.40	.51	.22	2.02	3.30
1938	1.10	.77	.31	.45	1.71	4.34
1937	.25	.33	2.17	.54	.71	4.00
1936	.00	.05	1.54	1.50	.45	3.54

GLENWOOD SPRINGS, COLORADO

	May	June	July	Aug.	Sept.	Total
Maximum Temp.	86	93	99	99	92	
Minimum Temp.	30	32	48	45	40	
Precipitation						
1940	.62	.45	1.21	1.49	2.50	6.27
1939	.95	1.50	1.84	.63	2.43	7.35
1938	2.53	3.45	0.45	1.44	2.14	10.01
1937	1.15	0.92	4.51	2.31	.96	9.85
1936	0.49	0.63	2.06	1.65	1.09	5.92

It will be seen by the above table that from May 1st to September 30th inclusive, at Glenwood Springs in 1939, a total of 7.35 inches of rain fell as compared to 6.27 inches in the same period of 1940, a decrease of 1.08 inches. At Rifle in the same period, 3.30 inches fell in 1939 and 5.24 inches in 1940, an increase of 1.94 inches, although this shows an increase at Rifle over last year, the rain fall was still considerably below normal.

Temperatures during the past season have been above normal, at Rifle reaching the highest on record, 102 degrees on the 23rd day of July.

Snow Report

Following is the average snow depth and water content of 19 snow courses on the Colorado River drainage above Grand Junction for the years 1938, 1939 and 1940 for the first of February, March, April and May, also the averages for the past five years:

AVERAGE SNOW DEPTH

	Five-Year Avg.	1938	1939	1940
Feb.	33.5	37.9	41.5	25.6
Mar.	41.8	40.4	48.1	32.2
Apr.	44.4	52.1	45.8	32.8
May	28.5	38.3	25.9	24.1

AVERAGE WATER CONTENT

	Five-Year Avg.	1938	1939	1940
Feb.	7.8	9.4	10.1	5.5
Mar.	11.3	11.3	12.8	9.1
Apr.	13.6	15.5	14.0	10.9
May	10.7	14.8	10.3	7.8

The above shows that on May 1, 1940, on the Colorado River drainage above Grand Junction, the water content of snow as indicated by the 19 snow courses was 7.8 inches, which was 25 percent less than it was in 1939 and 27 percent less than the five year average. This shows that the prospects for irrigation water were definitely poorer than they had been in 1939.

The following shows the runoff of the Colorado River at Glenwood Springs from April to September inclusive for the years of 1934, 1937, 1938, 1939 and 1940.

RUN-OFF OF COLORADO RIVER, ACRE-FEET

	1934	1937	1938	1939	1940
April	103,000	97,430	168,000	146,800	45,598
May	344,500	429,300	538,000	583,200	179,130
June	164,000	342,700	895,300	420,800	182,740
July	57,190	173,900	296,700	124,900	63,403
August	56,660	75,920	106,000	66,610	29,265
September	42,460	65,480	113,100	51,520	30,748
Total	767,810	1,184,730	2,117,900	1,393,830	530,884

The 1939 snow record showed that the water content was 31 percent less on the 1st of May than it was on the 1st of May in 1938. The Colorado River runoff in 1939 for the months of April, May, June, July, August and September was 1,393,830 acre feet as against 2,117,900 acre feet for the same months in 1938 which shows 34 percent less runoff in 1939 than in 1938. This checks very close to the snow survey prediction that there was 31 percent less water content than in 1938. The snow record in 1940 showed that there was 25 percent less water content in the snow on the first of May than there was on the first of May in 1939. From the past years record it seemed reasonable to suppose that the runoff of the Colorado River at Glenwood Springs would be some where near 25 percent less than it was in 1939 especially so since the rain fall and the use and diversion of water in the upper Colorado River basin was approximately the same as in 1939. However the runoff of the Colorado River at Glenwood Springs in 1940 was 530,884 acre-feet and in 1939, 1,393,830 acre-feet, a difference of 61 percent. This great difference from what the snow survey showed, leads one to believe the snow survey will have to be continued for some time longer. With the records of a longer period of years to work with it may be possible to predict fairly close what the runoff in any one year will be.

Reservoir Storage

Reservoir storage this year was about normal; on May 15th there was 16,983 acre-feet in storage in 19 reservoirs in this division; besides this amount there were a few very small reservoirs filled on which there is no record. By November 1st, all of the stored water had been used.

Range Conditions

Range conditions this year were about the same as last, being in good condition in the spring and up to about June 15th, then they became very dry and feed was extremely short. Cattle prices have been very good this fall and cattlemen have made some money. Sheep prices average the same as last year. Due to the dry conditions a number of forest fires were reported this year, most of them were brought under control quickly and not very much damage resulted.

Potatoes

The potato yield this year has been about normal whereas in 1939 it was only 50 percent of normal. This big change over last year was due to the frost in June of 1939. Prices are about the same as last year, 60 to 70 cents per hundred.

Sugar Beets

The sugar beet yield this year has been about normal, due to the fact that most sugar beets were raised on farms having water rights that are not affected by water shortage.

Alfalfa

Alfalfa yield is again way below normal this year, due to shortage of rain fall and water for irrigation.

Construction

During the past year in District No. 50, two new reservoirs have been completed and put in use for the first time this season. A third reservoir is now being built.

The City of Glenwood Springs have increased their storage capacity for city purposes this year by the installation of two 500,000 gallon steel tanks.

The Town of Minturn has added a 400,000 gallon steel storage tank to their city water system.

Investigations

The Bureau of Reclamation investigations and report for the Rifle Creek Project in Water District No. 39 are about complete and will be released after the first of the year. This project consists of an earth-filled dam about 120 feet high, which will impound approximately 6,000 acre-feet of supplemental water storage.

Trans-Mountain Diversion

Following is a report of the Trans-Mountain Diversions from Division No. 5 to Divisions Nos. 1 and 2:

Division No. 1	
Eureka	35 Acre-feet
Grand River	17,196 Acre-feet
Berthoud	566 Acre-feet
Jones Pass	9,555 Acre-feet
Moffat Tunnel	28,813 Acre-feet
East Hoosier	101 Acre-feet
West Hoosier	...... Acre-feet
Boreas Pass	166 Acre-feet
Total	56,432 Acre-feet
Division No. 2	
Twin Lakes Tunnel	27,768 Acre-feet
Busk-Ivanhoe Tunnel	4,266 Acre-feet
Ewing Ditch	173 Acre feet
Wurtz Ditch	1,002 Acre-feet
Columbine Ditch	1,717 Acre-feet
Fremont Pass Ditch	639 Acre-feet
Total	35,565 Acre-feet
Grand Total	91,997 Acre-feet

Yours very truly,

L. C. FINLEY, Division Engineer.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORT FOR IRRIGATION SEASON OF 1940, IRRIGATION DIVISION NO. 5

District No.	No. of Ditches Reported	Amount of Appropriation Cu. Ft. Per Sec.	Capacity of Canal	Length of Main Ditch in Miles	First Day Water Was Used	Last Day Water Was Used
36	...	......	......	......	......	......
37	217	1,811.35	1,691.49	330.00	May 15	Nov. 1
38	112	1,405.52	1,440.00	268.35	Apr. 1	Oct. 15
39	129	593.09	769.00	223.70	Mar. 10	Nov. 31
45	103	578.46	792.94	143.80	Apr. 1	Nov. 1
50	...	......	......	......	......	......
51	...	......	......	......	......	......
52	92	130.98	382.50	51.37	Apr. 15	Oct. 15
53	60	227.35	......	87.30	Apr. 10	Oct. 20
70	65	264.07	340.00	98.25	Mar. 8	Oct. 28
Totals	778	5,010.82	3,975.93	925.42		

District No.	Average No. of Days Water Was Carried	Average Daily Amt. Diverted in Sec. Ft.	No. of Acre-Ft. Used from Stream	No. of Acres That Can Be Irrigated	Alfalfa	Natural Grasses
36	...	......	......	11,500	......	......
37	115	858.00	267,813	28,521	11,722	1,238
38	114	865.38	207,122	37,175	21,570	6,380
39	116	373.00	102,083	25,832	10,283	3,082
45	58	317.97	48,317	38,718	15,281	4,391
50	...	......	......	21,400	......	......
51	...	......	......	41,100	......	......
52	42	115.43	10,957	8,217	1,400	2,415
53	140	161.70	48,966	15,755	3,395	7,440
70	82	137.42	31,948	18,305	5,357	455
Totals	95	2,828.90	717,206	246,523	69,008	25,401

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORT FOR IRRIGATION SEASON OF 1940, IRRIGATION DIVISION NO. 5—Continued

District No.	Cereals	Orchards	Market Gardens	Potatoes	Sugar Beets	Beans	Peas
36	....	....	....	....	....	....	....
37	3,715	....	328	1,482	....	....	149
38	6,045	....	....	3,180	....	....	....
39	3,843	451	247	611	1,539	60	....
45	4,580	818	38	89	26	40	....
50	....	....	....	....	....	....	....
51	....	....	....	....	....	....	....
52	305	....	....	40	....	....	....
53	350	....	....	180	....	....	....
70	1,610	5	....	45	....	281	....
Totals	20,449	1,274	613	5,627	1,565	381	149

District No.	Cabbage	Other Crops	Total Irrigated	Superintendence	Repairs	Improvements
36	...	...	8,400	......	......	......
37	...	...	26,831	......	$19,481.00	......
38	...	...	37,175	......	......	......
39	...	2	20,121	$ 3,200.00	12,048.52	$ 2,110.00
45	...	87	25,749	......	1,982.00	858.00
50	...	...	9,100	......	......	......
51	...	...	22,180	......	......	......
52	...	...	4,160	......	1,198.00	......
53	...	400	11,765	......	2,210.00	......
70	...	324	8,077	......	3,750.00	1,075.00
Totals	...	813	173,558	$ 3,200.00	$40,669.52	$ 4,043.00

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 6 FOR THE SEASON OF 1939

Steamboat Springs, Colorado, November 30, 1939.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

I herewith transmit my annual report for Irrigation Division No. 6 for the year ending November 30, 1939, which includes a tabulation of the Water Commissioners' annual ditch and reservoir reports, and reports on water supply, rainfall and temperature conditions in relation to crop production for 1939.

While the past season was one of the lowest in water supply, adverse temperatures and lack of precipitation during the growing season, which increased the subnormal conditions with respect to crop production and range conditions, the increase in prices of farm products and livestock has tended to offset to a great extent the unfavorable climatic conditions.

The irrigation season just completed was no doubt the most trying on the irrigators and the administration officials that this Division has had in a number of years. Due to the adverse weather conditions, drought and water shortages, many trifling complaints were made and were adjusted without resorting to drastic measures and no disputes of a serious nature developed.

The mileage traveled by the Division Engineer from April 1st to November 1st totals 7,250 miles, of which 3,317 miles were for administrative purposes and 3,933 for Hydrographic work and discharge measurements. Fifty-two river discharge measurements were made and twenty-two ditch ratings. About seventy-five other ditches were visited for the purpose of inspecting measuring devices and head gates and in response to complaints. Ten reservoirs were visited and inspected and orders sent to owners for necessary repairs. Five new reservoir sites were inspected and preliminary reports made.

Travel and Expense of Division Engineer—Starting April 1st

Month	Total Miles	Administrative	Hydrographic
April	964	422	542
May	1,155	475	680
June	981	332	649
July	1,084	636	448
August	1,006	558	448
September	942	420	522
October	1,118	474	644
	7,250	3,317	3,933
Month Average	1,036	474	562
Cost total	$362.50	$165.85	$196.65
Average per Month	$ 51.79	$ 23.70	$ 28.09

A change of Water Commissioner and Deputy was made in District No. 43. Thomas Kilduff was succeeded by Thomas Watson and Henry Peterson replaced L. S. Peavey as deputy. A deputy water commissioner was added in District No. 44. Other districts functioned as usual.

The following tabulation shows the cost of administration by Water Commissioners and Deputies the past season.

1939 Water Commissioners

		Total Time	Amount	
District 43	Water Commissioner	121 days	$ 726.00	
	Deputy	90 days	450.00	$1,176.00
District 44	Water Commissioner	187 days	1,122.00	
	Deputy	22 days	110.00	1,232.00
District 54	Water Commissioner	69 days		414.00
District 57	Water Commissioner	197 days		1,182.00
District 58	Water Commissioner	196 days		1,176.00
		882 days		$5,180.00

Administration		Land Irrigation	Cost per Acre
No. of Ditches	Reservoirs		
637	45	103,766 acres	$0.05 cents

Snowfall—Yampa and White River Basin

On the Yampa River drainage the water content of the snow on April 1st, as indicated by five snow courses, was 17.6 inches and on May 1st was 13.9 inches, which is about 8 percent less than the average for the past four years and about 8 percent less than last year. The May 1st readings show about 8 percent less than the April 1st readings.

On the White River drainage, the average water content of snow for two courses on the water shed, May 1st, was 9.9 inches, 8 percent less than the four year average and 21 percent less than last year.

TABULATION OF SNOW COURSE READINGS ON THE WHITE AND YAMPA RIVER WATERSHEDS FOR APRIL AND MAY

April 1st, 1939, Snow Course Measurements

Main Drainage and Snow Course	Av. Snow Depth			Av. Water Content		
YAMPA RIVER	Avg. In.	1938 In.	1939 In.	Avg. In.	1938 In.	1939 In.
Dry Lake	61.8	56.6	50.8	22.3	20.0	20.2
Elk River	55.5	58.1	40.9	18.4	16.9	14.9
Rambler R. S.	70.5	67.7	53.7	25.3	24.4	22.1
Lynx Pass	46.4	50.9	40.9	13.7	17.1	14.4
Columbine Lodge	69.4	69.0	60.7	24.0	23.1	22.2
	60.7	60.5	49.4	20.9	20.3	18.8
WHITE RIVER						
Burro Mountain	59.3	66.1	47.7	20.4	23.4	19.3
Rio Blanco	50.0	52.6	45.5	16.7	18.2	16.0
	54.6	59.3	46.6	18.5	20.8	17.6
May 1st, 1939, Snow Course Readings						
YAMPA RIVER						
Dry Lake	33.0	26.7	31.1	16.6	14.6	13.5
Elk River	32.1	34.9	16.9	12.4	14.4	7.1
Rambler R. S.	49.7	45.4	39.8	24.0	22.2	19.9
Lynx Pass	21.0	23.9	19.1	8.8	10.4	8.5
Columbine Lodge	44.6	43.9	44.2	20.5	20.4	20.7
	36.1	35.0	30.2	16.5	16.4	13.9
WHITE RIVER						
Burro Mountain	30.4	35.3	24.0	13.1	15.2	10.7
Rio Blanco	19.5	24.8	16.0	8.5	9.8	9.0
	25.0	30.0	20.0	10.8	12.5	9.9

Heavy runoff started early in May and continued to first week in June.

General Weather Conditions as Shown by Temperature Records

January—Considerably warmer than normal, excess in precipitation.

February—Considerably colder than normal, excess in precipitation with more than the normal amount of wind.

March—After March 7th the average temperature for the month was above normal and slightly above in precipitation.

April—Unusually dry and warm weather prevailed during the month, precipitation was decidedly deficient, winds were frequent.

May — Temperature averaged considerably above normal, while precipitation was deficient about 37 percent. Winds of high velocity were frequent and severe enough to cause considerable damage to crops. During twenty-one days of the month, the temperature was freezing or below, yet the departure from normal is shown as a +1.8.

June—Frost or freezing temperature fifteen days in June. Temperature averaged colder than normal with a slight increase over the normal precipitation. Early part of month destructive winds caused considerable damage to crops and property.

July—Unusually warm and exceptionally dry weather continued, and hot and dry winds, very destructive to vegetation, occurred throughout the month.

August—Temperature averaged above normal, while precipitation was only 20 percent of normal.

September—Unusually warm weather, the average being almost 4 degrees above normal, while the precipitation more than doubled the normal amount.

While temperatures, on the average, were higher than normal throughout the season, the continual cold nights and dry, windy, hot days were considered more damaging to crops than the drought.

Temperature and Precipitation Tabulation

Tabulations taken from the records at Steamboat Springs. It is a fair average of conditions relative to temperature and precipitation with respect to crops throughout the Division.

TEMPERATURE

Month	Min.	Max.	Mean	Dept.	Mean Min.	Mean Max.	Highest Range	No. of Days Freezing
May	22	83	49.8	+1.8	29.7	70.0	58	21
June	20	87	53.5	—1.17	32.1	74.9	54	15
July	28	95	61.8	+1.2	37.3	86.3	59	5
August	27	89	59.8	+1.4	37	82.7	59	10
September	24	85	55.6	+3.8	38	73	53	9

PRECIPITATION

Month	1939 In.	Avg.	Dept. from Normal	Per Cent
May	1.3	2.04	— .74	63%
June	1.09	1.06	+ .03	103%
July	.76	1.53	— .77	50%
August	.31	1.62	—1.31	20%
September	2.96	1.46	+1.50	202%

CROPS

Potatoes

Acreage and production both under normal, the production per acre runs about 80 percent of normal. Quality is good but potatoes are smaller size. The crop for market this season will not exceed 50 cars.

Hay, Timothy and Clover

This crop, where irrigation water was plentiful, will average about 75 percent of the normal production. Where irrigation water was short, the production will not average over 50 percent.

Some meadows were not cut but used for pasture.

Alfalfa and other hay crop in District 43, average 75 percent of normal.

Grain

The grain crop is the poorest in many years, damage caused primarily by drought and not frost.

Spring wheat averaged 20 bushels per acre or 75 percent of normal.

Winter wheat almost complete failure.

Oats about ⅔ crop.

Other small grains average about ½ crop.

There was a slight increase in acreage planted over normal.

Lettuce and Vegetables

The total number of cars of lettuce, spinach, and mixed vegetables are as follows: 96 Lettuce, 7 Spinach, 24 Mixed vegetables. (Lettuce and Spinach in same car.)

Small total this year on account of heavy frosts during the month of June which ruined several fields.

Market fairly good. Growers received about $1.00 per crate for Lettuce and one to two cents per pound for Spinach.

The Lettuce and Spinach acreage for 1940 should be as large or larger than 1939.

About potatoes, none have yet been shipped. We have about 12 car loads to move, now stored in our Potato cellar, which will probably be moved in February. The 12 cars will be about all that will be shipped from this district.

Farmers of the Yampa Valley were encouraged by the announcement that an additional $100,000.00 would be provided to meet increase in costs of constructing the Yampa Reservoir Dam.

Work in the project seventeen miles south of Yampa has been halted by the discovery of faulty foundation conditions which forced a relocation of the dam and the expenditure of from $80,000.00 to $100,000.00 more money.

The dam was designed to impound 6,000 acre-feet of water of the Yampa River, to provide supplemental irrigation. But for the unsatisfactory foundation conditions, the project would have been nearly completed this season.

Attached hereto are tabulated statements of Water Commissioners' ditch and reservoir reports.

Yours very truly,

B. T. CHASE,
Irrigation Division Engineer, Division No. 6.

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT 1939

District No.	No. of Ditches Reported	No. of Priorities	Amt. of Appropriation, Cu. Ft. Per Sec.	Capacity of Canal	Length of Main Ditch, Miles
43	112	122	550.03	600.00*	203.89
44	143	103	434.36	757.00	209.75
54	49	34	88.33	215.00	40.00
57	59	80	392.69	423.00	158.05
58	274	337	1,139.71	1,366.00	251.00
Totals	637	676	2,605.12	3,361.00	862.69

District No.	Length of Laterals, Miles	First Day Water Used from Natural Stream	Last Day Water Used from Natural Stream	Av. No. of Days Water Carried from Natural Stream	Av. Daily Amt. of Water during Season (Cu. Ft. Per Sec.)
43	.....	4-1	11-15	90	492.18
44	383.50	4-1	10-10	52	407.67
54	.....	4-1	9-10	57	114.34
57	.....	4-6	10-24	91	226.89
58	8.50	4-1	10-30	74	660.53
Totals	391.00			73	1,901.61

District No.	No. of Acre-Feet Used by Canal	Total No. of Acres That Can Be Irrigated	Alfalfa	Natural Grasses	Cereals
43	138,944.60	24,966	8,685	8,644	2,249
44	46,731.92	27,760	11,782	7,591	3,570
54	13,999.00	8,225	1,209	3,995	329
57	51,388.58	16,371	685	11,637	39
58	118,436.00	48,843*	511	35,565	2,190
Totals	269,500.10	126,165	22,872	67,432	8,377

District No.	Orchards	Market Gardens	Potatoes	Pasture	Lettuce	Spinach
43	..	..	45	....	....	....
44	..	..	25	....	....	....
54	1	..	50	....	....	....
57	..		..	....	....	....
58	..	34	139	2,378	258	273
Totals	1	34	259	2,378	258	273

District No.	Cabbage	Other Crops	Total Irrigated	Superintendence	Repairs	Improvements
43	..	..	19,623	$ 1,174.00	$ 4,527.10	$ 1,056.50
44	..	40	23,008	....	5,040.00	810.00
54	..	..	5,584	....	3,250.00	....
57	..	..	12,361	....	2,975.00	....
58	..	64	41,412	....	2,005.00	1,787.00
Totals	..	104	101,988	$ 1,174.00	$17,797.10	$ 3,653.50

*Estimated.

REMARKS

Average number of days water carried reduced by insufficient supply.

TABULATION WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS, 1939

District No.	No. in District Reported	Area of High Water Line, Acres	Capacity in Cubic Feet	Quantity of Water in Reservoir May 1st, Cu. Ft.
43	1	...	1,694,994	719,032
44	2	...	22,682,214	20,272,060
54	2	32	18,791,232	9,635,016
57	20	354	165,431,449	117,179,646
58	20	480	216,255,991	123,019,107
Totals	45	866	424,855,880	270,824,861

District No.	Quantity of Water in Reservoir Nov. 1st, Cu. Ft.	First Day Water Used	Last Day Water Used	Av. No. Days Water Carried	Av. Daily Amt. of Water Carried in Cu. Ft.
43	908,452	...	...	..	....
44	519,000	5- 8	7-21	31	7.45
54	3,830,066	7- 7	7-24	18	8.69
57	19,843,622	6-24	8-21	28	6.53
58	142,000	5-17	8-29	18	50.40
Totals	25,243,140			24	73.07

District No.	No. Acre Feet of Water Carried	Alfalfa	Natural Grasses	Cereals	Orchards
43	.....	...	...	...	...
44	466.00	200	330	...	...
54	312.84	...	...	...	...
57	669.92	290	200	...	...
58	2,754.22	53	260	115	290
Totals	4,202.98	543	790	115	290

District No.	Potatoes	Total Irrigated	Repairs	Improvements
43	..	....	......	......
44	..	530	$ 100.00	$ 50.00
54	..	490	30.00	......
57	..	....	......	......
58	40	758	......	......
Totals	40	1,778	$ 130.00	$ 50.00

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 6 FOR THE SEASON OF 1940

Steamboat Springs, Colorado, November 28, 1940.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

I herewith transmit my annual report for Irrigation Division No. 6 for the year ending November 30th, 1940, which includes a tabulation of the Water Commissioners' annual ditch and reservoir reports.

The subnormal condition of water supply during the past season and its adverse effect upon crop and range conditions were more or less general throughout the area. This condition was most general with the ranges and majority of the dry farming and about one-third of the irrigated area where water supply was dependent upon tributaries with their water supply from snow deposits of lower altitudes, springs, and small storage reservoirs located thereon.

Diversions from the main streams of the Yampa, Elk, White, and Little Snake Rivers in Water District 58, West of Yampa, Districts 43, 44, 54, and 57 were very nearly normal and sufficient for all demands. This situation is attributed to nearly normal snow deposits in the higher altitudes combined with return flow from irrigation along the streams.

Water supply conditions as of May 1st based upon snow readings appeared favorable. In the area North and East of Steamboat Springs, water supplies were estimated 101% of the five year average and 121% of those in 1939. Such readings indicated that the Elk River and other tributaries in the vicinity should have an adequate water supply.

On the Yampa River, above Steamboat Springs, it was estimated that water supply would be slightly less than the five-year average but should equal or exceed that of 1939.

Relative gain in water content of the snow in the White River area, increased materially during the month of April and, on May 1st, was 95% of the five year average and 104% of that in 1939. Most of this supply, however, appeared to be at the head of lower tributaries on the south side of the river and it was doubtful if the main stream from Trapper's Lake down would have as great a runoff as it had in 1939.

SNOW READINGS MAY 1ST, 1940

Yampa River Area	Snow Reading	Water Content
5 year average	37.8 inches	16.5 inches
1939	30.2 inches	13.9 inches
1940	34.5 inches	16.5 inches
White River Area		
5 year average	25.2 inches	10.6 inches
1939	20.0 inches	9.8 inches
1940	25.8 inches	10.1 inches

It would appear from these readings that water supply conditions would be somewhat improved over that of 1939. However, current weather following was unfavorable for holding back the runoff. Consequently, an early runoff again occurred as in 1939.

Excess in temperature averages and below normal precipitation prior to and during the growing season, were not entirely unfavorable for crop growth. Hay and grain crops are much better in most of the area than they have been for the past several years.

Unusually warm and dry conditions continued throughout July and August; rains were decidedly scattered. Irrigation water held up very well, with but few exceptions, to the middle of July. Most crops were well along and the hot and dry conditions which followed were not materially deteriorating to crops except lettuce and vegetables, which suffered most by lack of irrigation water and excess temperatures.

During September, the average temperature was above normal and precipitation approximately double the normal amount. Grain and potatoes were injured by continuous wet weather, principally in District 58.

The effects of drought were detrimental to ranges. The range greened slowly, due to frequent periods of cold earlier in the season and lack of sufficient moisture, and sufficient water for stock purposes was a problem on some ranges where water was usually plentiful for such purpose. Consequently, some ranges were temporarily abandoned.

Water Commissioner, District No. 57, reports as follows on local situation:

"The season of 1940 was drier than 1939 but the weather and temperatures during the growing season and irrigation water was plentiful in the early part of the season. So, when the irrigation water failed, most of the crops were made. The hay turned out 50% better than last year. No trouble of any consequence was encountered this year in administration even though water was shorter than usual. Four headgates and six Parshall measuring flumes of various sizes were installed.

"No rains occurred during the season that were of any material benefit to the crops.

"No shortage of water occurred on the Yampa River in this district. On tributaries which cover 25% of the irrigated area of the district, the supply was less than 5% of the requirements."

Water Commissioner, District No. 43, reports, "this season was even drier in some respects than 1939. There was less available water in the small streams. Some ditches did not receive any water the entire season. While the White River was apparently lower than last season, the available water supply was adequate for all demands.

"The prevailing weather was less severe than 1939, there being no frosts, less hot winds, with more even temperatures.

"As to administration, everything went along more smoothly than last season."

CROPS

Lettuce and vegetable shipments in the Yampa section were very light this season, due to the long, dry period in July and August and poor marketing conditions during the shipping season. The lettuce netted the grower about 60c per crate and spinach about ½c per pound. Mixed vegetables were lettuce and spinach in the same car.

The following is a record of shipments of lettuce, spinach, etc., for season 1940:

Lettuce	76 cars
Spinach	20 cars
Mixed	28 cars
Total	124 cars

This is slightly under the 1939 shipments and about 50% of average shipments.

From the best available information at hand, it is estimated that better than 1,000 tons of baled hay (Timothy and Clover) have been trucked out of the Yampa Valley this fall, and several hundred tons by railroad. The baling of hay and hauling is still in progress at this time. The price received, average $14.00 per ton f.o.b. Steamboat Springs.

The hay quarantine, which has been in effect for the past several years, has been removed, which accounts for shipment outside of the district which has heretofore not been permitted.

It will be noted in the Water Commissioner's report in District No. 58, that irrigated pasture acreage has increased to over 10,000 acres, over an average reported of approximately 2,000. All such pasture acreage is former hay meadows.

This is the result of two things, each being probably an equal factor. First, due to former restrictions on hay shipments, decrease in cattle feeding and increase in sheep raising, the demand and available market for hay has been declining over the past few years.

Second, there are many small sheep owners who are unable to obtain sufficient range and are required to provide pasture.

Small grain and potato crops, which in this area are not considered an irrigated crop, are above the average in production. There was considerable loss in wheat in the area around Steamboat Springs on account of continual storms and wet weather during September and October.

On the average for the Division, everything has been successful for the farmer and stockmen. Some products were down both in price and yield, both due to unusual conditions. The past season, the stockmen have experienced the best year for several years, the principal reason probably being the increase in prices. The quality of livestock has been improved this year due to good pasture and feed resulting from favorable spring conditions.

The wheat farmers had a very good year in that yields were above the average. The wheat was of exceptional quality. Prices, however, have been very unsatisfactory and not much wheat has been moved at this time, shipments to date being 20 cars, price 60c to 65c per bushel.

The lettuce and spinach growers in the Yampa-Toponas area experienced one of their worst years. This is attributed to poor planting conditions, with top soil drying out too fast for the small seed.

The potato situation has been favorable from the production standpoint. The price of potatoes, however, has been very low and no potatoes have been moved.

The certified potato growers had a good year with good yield and high quality. The price outlook, however, is low and the demand not up to average.

The past two years, although subnormal as to water supply and adverse weather conditions, has resulted in no specific difficulties of administration.

Installation of measuring devices has continued without difficulty on all ditches requiring the services of the water commissioners. However, not much progress has been made on the installation of measuring devices on those ditches drawing water from the main Yampa, Elk and White Rivers, where water supply is usually sufficient for their needs.

District No. 57

Of 20 reservoirs reported in District No. 57, 13 adjudicated reservoirs for irrigation with combined capacity of 61,678,282 cubic feet were used for stock water only, during 1940.

Five reservoirs, total capacity of 58,354,906 cubic feet, were used for irrigation.

Two reservoirs, totaling 25,010,803 cubic feet, were not used due to poor condition of dams and outlet works.

Reservoirs

The Yampa Reservoir No. 1, constructed by the Yampa Reservoirs Public Irrigation District on the Yampa River seventeen miles south of the town of Yampa, was completed in September of this year and storage was permitted to start therein on September 30th.

The reservoir capacity is about 6,000 acre-feet. The water stored therein is to be used primarily to supplement the irrigation water supply of existing ditches in the district.

A 10-foot throat concrete Parshall measuring flume was installed in the river channel about 100 feet below the reservoir outlet.

One 4-foot and one 2-foot throat lumber Parshall measuring flumes were installed during September in the principal streams supplying this reservoir. In addition, there are two small streams on the south side of the reservoir which had a combined flow estimated at .25 c.f.s.

During the month of October, readings were obtained on the supply and there was an average of 5 c.f.s. or 10 acre-feet per day being stored during the month of October; a total of 310 acre-feet for the month.

This estimate will be a fair average for the winter months through to April 1st.

The following gauge heights have been noted since the closing of the valve:

October 6th	5 feet
October 9th	5.5 feet
October 10th	5.52 feet
October 14th	6.05 feet
October 17th	6.50 feet
October 22nd	6.80 feet
October 26th	7.20 feet
November 3rd	8.00 feet
November 14th	9.00 feet

A 4,000 acre-foot reservoir is contemplated for supplemental irrigation for approximately 3,000 acres of land on Elk Head Creek in District No. 44. Isadore Bolten and Earl Van Tassel expect to personally finance and construct the above reservoir and will start work as soon as all government and state requirements are met and when local conditions will permit the construction work next summer.

Construction was started on the Ramshorn Reservoir Dam in District No. 58 late this fall. This work was ordered discontinued pending more favorable weather conditions. The owners expect to complete same next summer.

Attached hereto are tabulated statements of Water Commissioners' ditch and reservoir reports.

Yours very truly,

B. T. CHASE,
Irrigation Division Engineer, Division No. 6.

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT, 1940

District No.	No. of Ditches Reported	Amt. of Appropriation, Cu. Ft. Per Sec.	Capacity of Canal	Length of Main Ditch, Miles	Length of Laterals, Miles
43	68	203.45	590.32	105	...
44	144	434.24	755.15	205	417
54	44	65.81	236.00	44	...
55 and 56—no reports					
57	58	299.79	475.00	155	...
58	285	955.40	1,489.67	315	...
Totals	599	1,958.69	3,546.14	824	417

District No.	First Day Water Used from Natural Stream	Last Day Water Used from Natural Stream	Av. No. of Days Water Carried from Natural Stream	Av. Daily Amt. of Water During Season (Cu. Ft. Per Sec.)	No. of Acre-Feet Used by Canal
43	1- 1	11-15	90	183.16	43,558
44	3-27	8-22	53	443.21	56,556
54	4-19	10-25	58	114.81	14,912
57	3- 1	10-21	78	210.69	51,578
58	4- 1	10-17	85	758.27	133,020
Totals			73	1,710.14	299,624

District No.	Total No. of Acres That Can Be Irrigated	Alfalfa	Natural Grasses	Cereals	Pasture
43	9,392	4,223	4,082	381	.....
44	28,915	13,485	6,810	2,835	.....
54	9,280	1,500	3,570	610	.....
57	16,223	825	11,448	39	.....
58	57,579	699	34,435	2,403	10,876
Totals	121,389	20,732	60,345	6,268	10,876

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT, 1940
—Continued

District No.	Market Gardens	Potatoes	Sugar Beets	Spinach	Peas
43	..	35	...	...	...
44	..	20	...	...	...
54	..	34	...	...	...
57	..	...	...	...	...
58	37	97	...	365	...
Totals	37	186	...	365	...

District No.	Lettuce	Mixed Vegetables	Total Irrigated	Repairs	Improvements
*43	...	...	8,721	$ 80.00	$ 385.00
†44	...	...	23,150	5,775.00	350.00
†54	...	...	5,714	4,050.00	......
‡57	...	...	12,312	2,800.00	......
†58	506	107	49,525	915.00	635.00
Totals	506	107	99,422	$13,620.00	$ 1,370.00

REMARKS

*W. C. reports ditches only administered during 1940.
†Nearly complete report.
‡Four ditches, no water to supply ditch. Complete report.

TABULATION WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS, 1940

District No.		No. in District Reported	Area of High Water Line, Acres	Capacity in Cubic Feet	Quantity of Water in Reservoir May 1st, Cu. Ft.
43	....	4	...	14,100,083	6,043,232
44	....	1	38	17,460,154	3,100,000
54	....	2	32	18,791,232	5,056,908
57	....	20	359	165,477,499	120,033,118
58	....	20	692	417,466,917	97,464,494
	Totals	47	1,121	633,295,885	231,697,752

District No.		Quantity of Water in Reservoir Nov. 1st, Cu. Ft.	First Day Water Used	Last Day Water Used	Av. No. Days Water Carried
43	....	283,245	4- 1	9-30	17
44	....	4,000,000*	5-11	7-25	75
54	....	3,129,538*	7- 7	7-28	21
57	....	None†	5-24	8-13	39
58	....	500,000	4-24	10-10	17
	Totals	7,912,783			38

*Reservoir filled after May 1st.

†50-50 stock water and irrigations.

District No.		Av. Daily Amt. of Water Carried in Cu. Ft.	No. Acre Feet of Water Carried	Alfalfa	Natural Grasses	Cereals
43	....	1.31	196	25	10	25
44	....	7.20	1,080	300	100	...
54	....	7.50	315	...	...	...
57	....	6.41	640	366	290	...
58	....	31.88	2,305	25	215	100
	Totals	54.30	4,536	716	615	125

District No.		Potatoes	Total Irrigated	Superintendence	Repairs	Improvements
43	....	15	75	$ 75.00	......	$ 60.00
44	....	..	400	......	$100.00	......
54	....	..	...		*All supplemental	
57	....	..	656	......	......	†......
58	....	50	390	......	......	......
	Totals	65	1,521	$ 75.00	$100.00	$ 60.00

*Water reported on Ditches.

†1,340 Ac. Ft. storage for irrigation. 1,415 Ac. Ft. storage stock water and pasture.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 7 FOR THE SEASON OF 1939

Durango, Colorado, November 8, 1939.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

This is to submit for your approval the Annual Report of Irrigation Division Engineer of Irrigation Division No. 7 for the seasonal year of 1939.

Included in this report are tables of precipitation, accumulated snow depths at high elevations on the principal watersheds, water supply and runoff, use of water, crops and irrigation developments and the tabulation of water commissioners' annual ditch and reservoir reports.

Respectfully yours,

J. R. WILLIAMS,
Irrigation Division Engineer.

Annual Report of Irrigation Division Engineer

Irrigation Division No. 7, 1939

TABLE OF PRECIPITATION, 1938-39

Inches

Weather Bureau Station and Elevation

	Cascade 8,853		Cortez 6,177		Durango 6,529		Ft. Lewis 7,610		Ignacio 6,425		Rico 8,714		Silverton 9,415	
Month	Amt.	Dep.	Amt.	Dep.	Amt.	Dep.	Amt.	Dep.	Amt.	Dep.	Amt.	Dep.	Amt.	Dep.
Oct., 1938	2.76	+0.24	1.41	+0.21	0.93	—0.84	2.04	+0.56	1.74	+0.48	2.82	+1.35	3.89	+1.69
Nov., 1938	1.50	—0.39	0.73	—0.11	0.26	—1.12	0.47	—0.50	0.17	—0.87	2.11	+0.69	0.57	—0.83
Dec., 1938	2.12	—0.27	0.52	—0.52	0.95	—0.78	0.63	—0.65	0.54	—0.54	1.32	—0.41	1.19	—0.51
Jan., 1939	3.51	+0.89	1.19	+0.22	1.90	+0.32	1.51	+0.45	1.48	+0.41	3.25	+0.93	2.67	+0.85
Feb., 1939	1.89	—0.71	0.79	—0.81	1.18	—0.54	1.63	—0.07	0.91	—0.28	2.91	+0.81	0.98	—0.70
Mar., 1939	2.76	—0.60	1.34	+0.33	1.49	+0.33	2.05	+0.61	1.15	—0.32	2.05	—0.55	1.44	—1.39
Total 6 Mos.	14.54	—0.84	5.98	—0.68	6.71	—2.63	8.33	+0.40	5.99	—1.12	14.46	+2.82	10.74	—0.89
April	1.12	—1.15	0.64	—0.13	0.51	—1.10	0.64	—0.51	0.91	—0.32	0.90	—0.55	1.22	—0.48
May	0.10	—1.29	0.01	—0.89	0.32	—0.75	0.17	—0.70	0.21	—0.70	0.54	—0.91	0.61	—0.68
June	0.17	—1.01	0.00	—0.43	0.12	—0.77	0.00	—0.76	T.	—0.82	0.08	—1.20	0.54	—1.03
July	1.68	—1.28	0.56	—1.31	0.48	—1.73	1.05	—1.44	0.85	—1.46	1.60	—1.20	1.21	—1.62
Total April-July	3.07	—4.73	1.21	—2.76	1.43	—4.35	1.86	—3.41	1.97	—3.30	3.12	—3.86	3.58	—3.81
% Def. April-July		61		70		73		65		62		55		52
Aug.	2.39	...	0.94	—0.57	1.51	—0.75	2.15	—0.19	0.78	—1.44	1.96	—0.91	2.13	—0.99
Sept.	4.75	+1.90	2.30	+0.82	3.31	+1.53	4.10	+2.23	2.15	+0.70	3.61	+0.82	3.92	+1.04
Total Oct.-Sept.	24.75	—4.13	10.43	—3.19	12.96	—6.20	16.44	—1.77	10.89	—5.16	23.15	—1.13	20.37	—4.65
% Def. Oct.-Sept.		14		23		32		10		32		5		19

Snow Surveys and Water Forecasts, 1939

					March 1		April 1		May 1	
Sta. No.	Main Drainage	Local Drainage	Locality	Elev.	Snow Depth Ins.	Water Cont. Ins.	Snow Depth Ins.	Water Cont. Ins.	Snow Depth Ins.	Water Cont. Ins.
29	San Juan	San Juan	Wolf Cr.	10,000	80.2	21.9	70.5	28.3	44.8	20.9
30	San Juan	Animas	Silverton	9,400	20.8	4.5	0.0	0.0	0.0	0.0
31	San Juan	Cascade Cr.	Cascade	8,850	33.2	8.9	12.5	4.8	0.0	0.0
23	Dolores	Dolores	Near Rico	8,700	27.2	6.2	7.7	2.7	0.0	0.0
25	Dolores	Dolores	Lizard Head	10,300	46.3	12.2	43.7	12.7	26.7	11.0

The above table of figures are taken from the monthly reports of Bureau of Agricultural Engineering. On April 1st it was stated, "on the watersheds of Dolores and San Juan Rivers the snow cover is definitely less than last year." On the first of May report it was stated, "from the watersheds of Dolores and San Juan—the runoff will be much below normal."

The average water content at four courses on the San Juan was 9.8 inches which was 28 percent less than the four-year average and 35 percent less than in 1938 as of May 1st.

Precipitation

During March slight excesses were recorded at Durango, Cortez and Ignacio but deficiencies were shown at Cascade, Rico and Silverton. The total departure from the average from October, 1938, to March, 1939, was very slight. Small deficiencies existed at most stations but an excess of 2.82 inches or 24 percent was shown at Rico. From April to July inclusive, the average of total precipitation as measured at seven weather bureau stations within the division was 38 percent of the average or 62 percent deficient.

The combination of fast receding snow at high elevations during the early spring months, and lack of precipitation, low temperatures at night and windy days, brought about one of the worst if not the most severe drought ever experienced by white men in the San Juan and Dolores Basins.

The most outstanding official confirmation of drought was recorded at Cortez where 0.01 inch of rain fell during May and June. With the exception of 0.05 inch on April 30th and 0.01 inch on the 14th of May, there was no recorded precipitation at this station from April 4th to July 27th, a period of one hundred and fifteen days. Weather Bureau Records at other stations do not reveal so complete a lack of rain during the same period but conditions were practically the same over the entire division.

Temperatures and Wind

Temperatures were generally lower than normal. At Durango the mean minimum during June was thirty-nine degrees. A low of twenty-eight on the 18th and a high of forty-seven on the 5th.

No records are published of the evaporation and wind at Durango. Day temperatures were about normal but dry winds of considerable velocity occurred almost daily during April, May, June and July. On June 15th considerable damage was done by a high wind which was accompanied by dust from Utah and Arizona.

The low temperature or frost on June 18th did considerable damage to alfalfa and to row crops. The damage was spotted which made the situation worse than if crops had been completely killed as replanting could not be done.

Water Supply

The discharge of several streams from April to July, 1939, the relation to the average and to the runoff in 1938 is shown by the following tables:

ANIMAS RIVER AT DURANGO
Flow in Acre Feet

			MONTH		
	April	May	June	July	Total
Mean flow 38 years	60,900	158,040	184,770	77,370	481,080
1939 flow	47,750	113,750	78,910	26,710	265,120
1939 percent of mean	75	72	43	35	55
Percent of 1938	56	78	37	28	49

DOLORES RIVER AT DOLORES
Acre Feet

			MONTH		
	April	May	June	July	Total
Mean flow 27 years	48,530	112,600	81,220	24,380	266,730
1939 flow	42,330	70,570	27,460	5,450	145,810
Percent of mean in 1939	87	63	34	22	55
Percent of 1938	49	56	21	17	39

PINE RIVER NEAR BAYFIELD
Acre Feet

			MONTH		
	April	May	June	July	Total
Mean flow 11 years	25,700	65,120	69,680	28,600	189,100
1939 flow	22,660	58,460	32,500	10,270	123,890
1939 percent of mean	88	90	47	36	66
1939 percent of 1938	62	75	27	24	45

LA PLATA RIVER AT HESPERUS
Acre Feet

			MONTH		
	April	May	June	July	Total
Mean flow for 22 years	5,950	12,280	9,110	2,370	29,710
1939 flow	4,070	5,590	2,290	541	12,491
1939 percent of mean	68	45	25	23	42
1939 percent of 1938	39	42	25	21	35

Of the preceding group the La Plata at Hesperus was most deficient. The Mancos River near Mancos became as low as the La Plata. In relation to the average, Pine River again proved to be the best natural stream in the division, the percentage for 1939 being 66 percent during the four-month period while the Animas and Dolores delivered 55 percent.

The early official prediction or forecast that the flow of the San Juan and Dolores Rivers would be much below normal proved to be correct. Weather conditions which could not be predicted were as important a factor in relation to stream flow as the existing accumulated snow supply at the beginning of the irrigation season. Moral: Only those who have Divine Dispensation should make forecasts.

Runoff of small streams was practically depleted by June 1st. During April, May and June the surface supply was better than in 1934 but the combination of short supply, lack of rain and other adverse factors combined to bring about a more severe condition than existed during the summer of 1934 which was the previous low year of record.

Of the approximate 2,500,000 acre-feet of water which has developed annually in the San Juan and Dolores Rivers in Colorado the year 1939 was deficient about 1,125,000 acre-feet or 45 percent.

Use of Water

There was diverted a total of 357,400 acre-feet from the natural streams for the irrigation of 140,444 acres. This was 89 percent of the amount diverted in 1938. Headgate duty was 2.53 acre-feet per acre. It is odd that so great a quantity of water was diverted in a drought year but diversions were unseasonal. 16,364 acre-feet was diverted from storage and was applied on about 8,000 acres, partly supplemental to natural flow.

Use of water was restricted in some towns during July because of low stages of flow at souce of supply. This applied particularly to the towns of Mancos and Cortez. The Town of Mancos owns 1.60 s.f. of Priority No. 3 and is diverted from West Mancos. When No. 3 failed, the owners of No. 2 gave the town 0.5 s.f. for domestic use. It looked bad for the City of Durango when the stream flow was at low point during July. The City owns 7.5 s.f. of the earliest water of the Florida River and this was at all times available for diversion and use was not restricted. In fact the City water was given to farmers at different periods to fill ponds and cisterns.

An inspection of the Durango City Reservoir which is located at the head of the Florida River and which impounds 456 acre-feet, disclosed on July 23rd that the dam, which is of log and rock fill type, was leaking so badly through the rocks and through the outlet that only 200 acre-feet remained in storage at that date. It was apparent that at the rate of loss there would be no water left in storage for the City in a short period if the drought continued.

Crops

Areas irrigated from small streams were the hardest hit and there was a complete crop failure in a large part of such areas. Lands irrigated from the larger streams where sufficient water was used early had at the maximum a 50 percent hay crop. Crops over the division ranged from failure to 50 percent of normal for hay, from nothing to 30 percent of cereal crops. Range conditions became so poor because of lack of forage and water that many herds were moved from summer ranges to farms or to market. Rains came during the last few days of July. August rainfall was some under the average which made the sixth consecutive month of deficient rainfall. Ground water became exhausted. Springs, wells and watering places dried up. Heavy rains came during September in sufficient time to make the fall and winter ranges good.

Developments, Improvements and Construction

The need of storage facilities to supply supplemental water was made more than apparent again this year. Particularly in the La Plata and Mancos sections where efforts continue to secure funds for dam construction but with no success to date. The Bureau of Reclamation continues studies of requirements and costs for such areas.

The large Vallecito Dam on Pine River is 61 percent complete. Forty-two percent of time for completion has elapsed. The dam is completed with exception of temporary diversion channel to El. 7625 which is 45 feet above the outlet tubes, 21 feet below spillway crest and 48 feet below crest of dam.

The Ground Hog Dam on headwaters of Dolores tributary is practically completed. The dry season was favorable for construction work.

The small Webber Reservoir Dam near Mancos is being raised this fall to a height of 24 feet under approved plans for a thirty-foot dam. This is an earth fill dam and the work is being done by a mutual company under the Webber Ditch. Ultimately about 700 acre-feet of water will be made available to such owners as supplemental for about 700 acres and will solve their water troubles with small outlay of capital as the work is being done with their own teams and labor. Reservoir stock is taken as payment for work done in lieu of wages. This is a Mormon controlled project.

The Summit Reservoir Company has repaired the westerly dike of the Summit Dam where a slip occurred last June. The Bauer Lakes Water Company are working on the No. 2 dam. Outlet tube is extended and the earth fill on lower toe is being placed. The budgeted amount of work in the amount of twelve hundred dollar expenditure will be done this fall if weather permits. This work is being done to raise the dam to sufficient height to permit storage of full capacity which has been restricted the last three years for safety.

The Taylor Reservoir Dam located in Cumberland Basin in the La Platas at elevation 11,600 feet has been raised a few feet, new outlet tube and gate installed, spillway widened so that about

55 acre-feet can be stored. This is an individually owned project to supply supplemental water for about 80 acres on Ft. Lewis Mesa.

The Florida Reservoir (Pastorius) has been repaired at the easterly dike so that a full decree or capacity of 960 acre-feet can be stored. The amount of storage in this reservoir has been restricted for two years because of eroded face of the dike.

The Montezuma Valley Irrigation Co. expended $3,150 in grouting the foundation and abutments of the Narraguinepp Dam. If such operations prove successful the leakage through the footing and abutments will be stopped, the dam will be more secure and loss of considerable water will be prevented.

This year has been the most active in respect to irrigation development by dam construction ever experienced in this division. When completed the projects under construction will provide more than ten times the amount of water than is now stored

IRRIGATION DIVISION NO. 7

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR IRRIGATION SEASON OF 1939

District No.	Number of Ditches Reported	Number of Priorities Reported	Amount Appropriated in Cu. Ft.	Capacity of Canals in Cu. Ft.	Length of Canals (Miles)	First Day Water Was Used from Natural Stream
*29	220	236	589	639	48	
30	175	218	608	940	240	Apr. 1
31	65	77	683	1,041	184	Apr. 27
33	41	49	292	448	66	Apr. 1
34	62	89	799	1,005	124	Apr. 1
69	28	33	108	123	22	Apr. 20
Totals	591	702	3,079	4,196	684	

*No Report. Estimated by Division Engineer.

District No.	Last Day Water Was Used from Natural Stream	Number Days Water Was Used	Average Daily Amount Used (Cu. Ft.)	Number of Acre Feet Used from Natural Stream	Number of Acres That Can Be Irrigated
29		...	...	......	*43,000
30	Nov. 15	229	249	113,850	64,667
31	Oct. 31	188	322	121,443	55,901
33	Oct. 22	181	36.0	13,048	*35,000
34	Oct. 22	205	250	102,310	61,065
69	Sept. 21	92	36.7	6,760	4,808
Totals		229	780	357,411	264,441

*No Report. Estimated by Division Engineer.

District No.	CROPS IRRIGATED					
	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes
29	....	....	....	....	....	....
30	9,918	4,624	5,771	703	12	453
31	12,857	8,670	10,713	212	....	243
33	4,133	1,200	2,118	15	66	77
34	13,160	13,800	11,170	1,214	65	905
69	1,091	725	765	20	15	48
Totals	41,159	29,019	30,537	2,164	158	1,726

District No.	CROPS IRRIGATED				COST (DOLLARS)		
	Beans	Peas	Other Crops	Total Irrigated	Superintendence	Repairs	Improvements
29	...	..	....	*25,000	......	......	......
30	...	..	....	21,481	$ 6,025.60	$16,562.50	$ 800.00
31	94	30	3,921	36,740	9,000.00	20,259.00	24,680.00
32	...	..	....	*3,000	......	......	......
33	83	..	93	7,785	532.74	1,335.34	842.87
34	1,900	..	1,356	43,570	20,134.00	29,353.00	13,950.00
69	...	..	204	2,868	......	1,283.00	......
Totals	2,077	30	5,574	140,444	$35,692.34	$68,792.84	$40,272.87

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*Estimated by Division Engineer.

Other crops includes 1,195 acres of clover seed, small acreage of alfalfa and flower seed crops.

IRRIGATION DIVISION NO. 7

TABULATION OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR 1939

District No.	Number of Reservoirs in District	Area of High Water Line (Acres)	Capacity in Acre Feet	Amount in Storage on May 1st	Amount in Storage on Nov. 1st
29	3	....	....	....	....
30	3	899	*25,394	11,348	21,422
31	1	354	1,770	0	0
33	1	36	576	493	0
34	5	920	14,670	14,670	0
69	1	16	50	50	0
Total	14	2,225	42,460	26,561	21,422

District No.	First Day Water Was Used from Storage	Last Day Water Was Used from Storage	Number of Days Water Was Used	Average Daily Amt. Used	Number of Acre Ft. Used	CROPS IRRIGATED Alfalfa	Natural Grasses
30	June 20	July 20	20	8.0	320	100	...
33	May 12	Aug. 22	21	10.3	431	156	...
34	Apr. 15	Oct. 15	180	43.3	15,574	1,125	650
69	June 20	July 7	18	1.1	39	70	...
Totals...			180	45.4	16,364	1,451	650

District No.	CROPS IRRIGATED Cereals	Orchards	Market Gardens	Potatoes	Beans	Other Crops	Total Irrigated
30	400	20	..	10	..	..	530
33	142	6	11	12	..	..	327
34	4,140	445	..	175	75	485	7,095
69	90	1	..	..	..	..	161
Totals	4,772	472	11	197	75	485	8,113

Dist. No.	COST (DOLLARS) Superintendence	Repairs	Improvements
30	$1,180.00	$1,975.20	....
31	......	......	†$ 986,000.00
33	190.56	......	750.00
34	885.00	7,974.20	‡302,500.00
Totals	$2,255.56	$9,949.40	$1,289,250.00

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*23,976 acre feet capacity of Electra Lake used for power development only.

†$986,000 estimated cost of Vallecito Dam construction for 1939.

‡Includes cost of Ground Hog Reservoir Dam at $300,000.00.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 7 FOR THE SEASON OF 1940

Durango, Colorado, November 23, 1940.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

Herewith is submitted for your approval the Annual Report for Irrigation Division No. 7 for the irrigation season of 1940.

Respectfully yours,

J. R. WILLIAMS,
Irrigation Division Engineer, Irrigation Division No. 7.

Annual Report of Irrigation Division Engineer Irrigation Division No. 7, 1940

Water Supply

Preliminary estimates of discharge of the Animas River at Durango for 1940 show the total runoff to have been 360,000 acre-feet or 55 percent of the mean for a period of 39 years of record. Summer flow, from April to July, inclusive, was 52 percent of the average. The water content of accumulated snow at Cascade as of April 1st was 5.3 inches or 50 percent of the average for the short period of record by the Bureau of Agricultural Engineering.

Estimates of the discharge of the Dolores River at Dolores give about 214,000 acre-feet or 66 percent of the mean for 29 years record. From April to July, inclusive, the runoff was 68 percent of the mean. Snow surveys on this stream as of April 1st indicated that there was 6.6 inches of accumulated water content which was 78 percent of the average at high elevations. Much of the accumulated water from snow was probably dissipated in replenishing ground water because of the preceding drought year.

The relation of runoff to the mean of the two above named streams was typical of runoff conditions on all other streams in the San Juan and Dolores River watersheds.

Precipitation

Total precipitation at Cascade on the Animas for the water year was 25.86 inches which was 3.08 inches or 11 percent deficient. At Rico on the Dolores the total was 27.05 inches which was plus 4.42 inches departure from the mean. Large excesses occurred for the months of January, February, April and September at both stations. Deficiencies occurred during all other months. At U. S. Weather Bureau Stations within the irrigated area the rainfall during the growing season was practically normal or equal to the mean. Excesses occurred during April, June, August and September with deficiencies during May and July.

Temperatures

During the growing season temperatures were consistently from one to three degrees above the average. Frost free period in the farming area was from May 7th to October 1st. The customary June freeze was not experienced although freezing temperatures were approached closely on June 9th.

Use of Water

A total of 419,830 acre-feet was diverted from the natural streams for irrigation. This amount was 17 percent greater than was diverted during 1939. A total of 146,360 acres were irrigated. Headgate duty was 2.87 acre-feet per acre; 24,416 acre-feet was used from storage for irrigation and domestic purposes.

Minimum stages of flow did not at any time become so critical as in 1939. No difficulty was experienced by Towns or Municipalities in obtaining sufficient water for domestic and sanitary use although the Town of Mancos was threatened with short supply for a few days in August.

Crops

As usually occurs, the areas irrigated from small streams did not have sufficient water to mature second crops of hay. Weather was favorable to crop growth and small grains, particularly wheat crops were made. The moisture conditions of the soil was excellent during the early spring and the moisture was at least partially retained on areas in fall wheat by mulching and packing the ground. Crop yields on such lands averaged about 25 bushels per acre. On lands which received from one to two irrigations the yields averaged about 40 bushels per acre with some yields reported as high as 60 bushels.

Lands having junior water rights on the main streams and those receiving water from small streams irrespective of priority and without supplemental water from storage produced one cutting of hay.

Farmers of Montezuma Valley claim that the supplemental water from Ground Hog Reservoir in addition to the Narraguinepp storage enabled them to make second crops of hay and to increase the yield of other crops although the amount of such additional storage was only 8,100 acre-feet, 7,630 acre-feet being released to the stream for irrigation diversion by the Main Nos. 1 and 2 Canals.

Excessive rains during late September were too late generally for benefit to crops but did serve to make abundant fall and winter pasture. Some difficulty was had in the harvesting because of heavy rains in September and October.

Developments, Improvements and Construction

The Vallecito Dam on Pine River to impound 130,000 acre-feet is nearing completion. Embankment and rock paving are completed. Some concrete remains to be placed in the transition to the spillway and the outlet gates and spillway gates remain to be placed. Such items will in all probability be done during the winter months. Water will be stored during the spring of 1941 for late use and thus will begin the first year of stabilized agriculture, from the water supply viewpoint, in the Pine River Valley.

The small Taylor Reservoir, built last year in Cumberland Basin on the La Plata, failed this year because of overtopping. It is believed that the spillway became clogged with ice. Repairs have been made to the dam, more freeboard and larger spillway provided.

The Webber Reservoir Dam near Mancos, originally built 35 years ago, has been in a state of enlargement and repair for the past two years. The south embankment has been completed to proposed height. The north embankment remains to be completed. No water was stored in 1940.

Sections of the Beaver Creek and Fish Creek feeder canals were lost during the spring thaw because of slips and mud slides. The Fish Creek Canal was repaired so that some water was carried but the Beaver Creek Feeder was not repaired until late fall when a large section was rebuilt on more firm ground. Partially due to such failures there was stored in the Ground Hog Reservoir only 8,100 acre-feet or 37 percent of the capacity of 21,710 acre-feet.

During the late fall of 1939 the Bauer Lake No. 2 Dam was strengthened by placing an earth and rock berm at the lower toe of the main dam. The same type of repair is being done this year at the Bauer No. 1 Dam.

The Town of Cortez is building a small dam near Cortez to impound 70 acre-feet of water which it is estimated will carry the town through the ice period. This is a WPA Project and is about one-third completed.

The Jackson Gulch Reservoir Project near Mancos has been approved and the money allotted for construction under the Case-Wheeler Act. This is a $1,400,000 project to provide 10,000 acre-feet of storage to supply Mesa Verde National Park and provide supplemental water for from 7,000 to 10,000 acres of farm land near Mancos. Cost to farmers will be about $1.50 per acre annually plus operation and maintenance costs. Repayment costs have been assessed on ability to repay.

The La Plata Project (Long Hollow Reservoir) is being considered under the same act as the Mancos Project. Progress in the organization of the farmers and in formation of a Water Conservancy District has been slow and for that reason this project will probably fail to be approved in the near future.

Parshall measuring flumes of timber construction were placed on ditches in District No. 29 near Pagosa Springs. Several of the same type were installed on ditches taking water from the Dolores River. Flumes of reinforced concrete were installed on four canals. Such flumes were installed under supervision of the Division Engineer and Water Commissioners.

Administration

This was another short water year and many difficult administrative problems arose. Aside from the La Plata Compact administration of which a separate report will be made, the administration of water rights on the Dolores River was the most exacting particularly during the period of release of water from the Ground Hog Reservoir to the stream some 35 miles above Dolores. This required daily policing of the stream. There were some headgate violations and one arrest for such violation.

The old established custom of allowing almost constant diversions of small amounts of domestic water was stopped on the La Plata, Mancos and Florida Rivers. This forced the construction of small domestic tanks or ponds and the domestic water problem was largely solved.

IRRIGATION DIVISION NO. 7

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR IRRIGATION SEASON OF 1940

District No.	Number of Priorities Reported	Amount Appropriated in Cu. Ft.	Capacity of Canals (Cu. Ft.)	Length of Canals (Miles)	First Day Water Was Used from Natural Stream
*29	...	†589	†639	†48	
30	225	608	842	233	Apr. 1
31	77	685	1,020	186	Apr. 22
33	45	292	451	68	Mar. 25
34	87	785	975	72	Apr. 1
69	27	134	157	21	Mar. 22
Totals	461	3,093	4,084	628	

*No report. †Estimated by Division Engineer.

District No.	Last Day Water Was Used from Natural Stream	No. Days Water Was Used from Natural Stream	Average Daily Amt. Used (Cu. Ft.)	Number of Acre Feet Used from Natural Stream	Number of Acres That Can Be Irrigated
*29		...	...	†75,000	†43,000
30	Nov. 15	220	208	91,390	64,820
31	Nov. 4	197	296	116,460	57,410
33	Nov. 12	182	26	19,310	21,450
34	Oct. 31	214	257	110,000	64,420
69	Aug. 14	127	30	7,670	4,990
Totals		220	954	419,830	256,090

*No report. †Estimated by Division Engineer.

CROPS IRRIGATED

District No.	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes	Beans
*29	....	....	....	....	....	....	....
30	9,679	4,395	6,316	699	7	361	....
31	13,381	11,218	11,943	207	133	262	114
33	4,697	1,473	4,484	48	96	88	305
34	14,251	8,727	13,482	1,187	282	1,148	2,000
69	1,086	845	845	21	....	45	40
Totals	43,094	26,658	37,070	2,162	518	1,904	2,459

*No report. †Estimated by Division Engineer.

District No.	Sugar Beets	Other Crops	Total Irrigated	(COST, DOLLARS) Superintendence	Repairs	Improvements
*29	..	....	†25,000	.....	.....	.....
30	..	....	21,457	$ 2,667	$ 9,945	$ 5,564
31	33	1,185	38,476	3,000	20,713	19,908
32	..	....	†3,000	.....	.....	.....
33	..	174	11,365	688	2,034	445
34	..	2,940	44,018	8,860	7,000	8,217
69	..	162	3,044	.....	1,295	300
Totals	33	4,461	146,360	$15,215	$40,987	$34,434

*No report. †Estimated by Division Engineer.

IRRIGATION DIVISION NO. 7

TABULATION OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR 1940

District No.	Number of Reservoirs in District	Area of High Water Line	Capacity in Acre Feet	Amount in Storage May 1st (Acre Feet)	Amount in Storage Nov. 1st (Acre Feet)
*29	3	....	....	....	....
30	3	899	†25,214	10,336	20,466
31	‡1	354	....	....	....
33	1	36	576	320	0
34	7	980	16,134	15,109	207
69	2	672	21,810	2,350	0
Totals	17	2,941	63,734	28,115	20,673

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*No report. †Includes 24,000 acre feet capacity of Electra Lake. ‡No water stored at Emerald Lake during 1940.

District No.	First Day Water Was Used from Storage	Last Day Water Was Used from Storage	Number of Days Water Was Used	Average Daily Amount Used (Second Feet)	Number of Acre Ft. Used
*29					
30	July 14	Sept. 10	15	15	450
33	June 20	July 15	11	11	241
34	May 7	Sept. 15	120	67	16,085
69	June 24	Aug. 21	46	84	§7,640
Totals			120	102	24,416

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*No report. §7,630 acre feet stored in Ground Hog Reservoir in Dist. 69 but used by Montezuma Valley Irrigation Co. in Dist. 34.

District No.	CROPS IRRIGATED					
	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes
30	260	....	500	20	....	....
33	150	....	52	8	16	8
34	6,244	2,847	5,942	616	105	509
69	....	....	70	....	....	....
Totals	6,654	2,847	6,564	644	121	517

District No.	Beans	Other Crops	Total Irrigated	(COST, DOLLARS) Superintendence	Repairs	Improvements
30	....	....	780	$ 240	$ 450	......
33	....	....	234	58	191	$ 42
34	2,142	500	18,905	13,015	991	......
69	....	....	.....	1,600	7,400	60
Totals	2,142	500	19,919	$14,913	$ 9,032	$ 102

INDEX

A

Page

- Administration 12
  - Laramie River 13
  - Sand Creek 13
- Administration Interstate Compacts 21-22
- Alamosa River above Terrace Reservoir—
  - Description 163
  - Discharge 186
- Alamosa River below Terrace Reservoir—
  - Description 163
  - Discharge 187
- Animas River at Howardsville—
  - Description 323
  - Discharge 348
- Animas River at Durango—
  - Description 323
  - Discharge 349
- Annual Reports, Irrigation Division Engineer, Div. No. 1 362–370
- Annual Reports, Irrigation Division Engineer, Div. No. 2 377–381
- Annual Reports, Irrigation Division Engineer, Div. No. 3 385–393
- Annual Reports, Irrigation Division Engineer, Div. No. 4 401–410
- Annual Reports, Irrigation Division Engineer, Div. No. 5 418–426
- Annual Reports, Irrigation Division Engineer, Div. No. 6 433–440
- Annual Reports, Irrigation Division Engineer, Div. No. 7 448–457
- Apishapa River at Aguilar—
  - Description 125
  - Discharge 150
- Apishapa River near Mouth near Fowler—
  - Description 125
  - Discharge 151
- Arapahoe Creek below Monarch Lake—
  - Description 211
  - Discharge 241
- Arkansas River near Avondale—
  - Description 118
  - Discharge 134
- Arkansas River Basin Stream Flow Data 116–156
- Arkansas River at Caddoa—
  - Description 120
  - Discharge 138
- Arkansas River at Canon City—
  - Description 117
  - Discharge 131
- Arkansas River at Granite—
  - Description 116
  - Discharge 129
- Arkansas River at Holly—
  - Description 121
  - Discharge 140
- Arkansas River at La Junta—
  - Description 119
  - Discharge 136
- Arkansas River at Lamar—
  - Description 120
  - Discharge 139

Page

Arkansas River at Las Animas—
  Description ... 120
  Discharge ... 137

Arkansas River near Nepesta—
  Description ... 119
  Discharge ... 135

Arkansas River at Portland—
  Description ... 117
  Discharge ... 132

Arkansas River near Pueblo—
  Description ... 118
  Discharge ... 133

Arkansas River at Salida—
  Description ... 116
  Discharge ... 130

B

Bear Creek at Morrison—
  Description ... 45
  Discharge ... 79

Bear Creek at Mouth at Sheridan Junction—
  Description ... 46
  Discharge ... 80

Big Grizzly Creek near Walden—
  Description (see Grizzly Creek) ... 55
  Discharge ... 100

Big Thompson River near Estes Park—
  Description ... 51
  Discharge ... 92

Big Thompson River below Loveland Power House near Drake—
  Description ... 52
  Discharge ... 93

Big Thompson River at Mouth of Canon near Drake—
  Description ... 52
  Discharge ... 94

Big Thompson River at Mouth near La Salle—
  Description ... 53
  Discharge ... 95

Blue River at Dillon—
  Description ... 218
  Discharge ... 264

Blue River below Green Mt. Res. near Kremmling—
  Description ... 219
  Discharge ... 265

Boulder Creek at Mouth near Longmont—
  Description ... 49
  Discharge ... 87

Boulder Creek near Orodell—
  Description ... 49
  Discharge ... 86

Buzzard Creek near Collbran—
  Description ... 223
  Discharge ... 276

Buzzard Creek near Heiberger—
  Description ... 223
  Discharge ... 275

C

Page

Cache la Poudre River at Mouth of Canon near Ft. Collins—
- Description 53
- Discharge 96

Cache la Poudre River near Mouth, near Greeley—
- Description 54
- Discharge 97

Canadian River at Cowdrey—
- Description 61
- Discharge 113

Carnero Creek near La Garita—
- Description 170
- Discharge 204

Cascade Creek near Tacoma—
- Description 324
- Discharge 351

Cebolla Creek at Powderhorn—
- Description 226
- Discharge 283

Cherry Creek near Franktown—
- Description 46
- Discharge 81

Cherry Creek near Melvin—
- Description 46
- Discharge 81

Cherry Creek near Red Mesa—
- Description 326
- Discharge 356

Clear Creek below Continental Reservoir—
- Description 160
- Discharge 180

Clear Creek near Golden—
- Description 47
- Discharge 82

Clear Creek at Mouth near Derby—
- Description 47
- Discharge 83

Colorado River Basin Stream Flow Data 208–299

Colorado River near Cameo—
- Description 210
- Discharge 239

Colorado River near Cisco, Utah—
- Description 210
- Discharge 240

Colorado River at Glenwood Springs—
- Description 209
- Discharge 238

Colorado River near Granby—
- Description 208
- Discharge 236

Colorado River near Grand Lake—
- Description 208
- Discharge 235

Colorado River near Hot Sulphur Springs—
- Description 209
- Discharge 237

Compacts, Interstate 21

Page

Conejos River near Mogote—
  Description 167
  Discharge 196
Conejos River near Las Sauses—
  Description 167
  Discharge 197
Conejos River at Platoro—
  Description 166
  Discharge 195
Crop Conditions 17
Crystal River near Redstone—
  Description 221
  Discharge 271
Cucharas River near La Veta—
  Description 125
  Discharge 149
Culebra River at San Luis—
  Description 169
  Discharge 201
Culebra River below San Luis—
  Description 170
  Discharge 202

D

Dams and Reservoirs, New Construction, Repairs, and Failures 18–20
Decisions on Appeals to State Engineer 14
Dolores River at Dolores—
  Description 233
  Discharge 297
Dolores River at Gateway—
  Description 234
  Discharge 299
Dolores River near McPhee—
  Description 233
  Discharge 298

E

East Mancos River near Mancos—
  Description 327
  Discharge 357
East Muddy Creek near Bardine—
  Description 228
  Discharge 287
East River at Almont—
  Description 225
  Discharge 279
Elk River at Clark—
  Description 300
  Discharge 306
Employees, List of 7

F

Fees Received 10
Financial Statement 11
Florida River near Durango—
  Description 325
  Discharge 353

Page

Fountain Creek near Fountain—
  Description ... 123
  Discharge ... 145

Fraser River at Granby—
  Description ... 212
  Discharge ... 245

Fraser River near West Portal (Arrow)—
  Description ... 212
  Discharge ... 243
  Correction Table for Diversions by Moffat Tunnel ... 244

G

Gaging Stations, Descriptions of ... 38–62, 116–128, 157–172, 208–234, 300–304, 314–328

Goose Creek above Lake Cheesman—
  Description ... 45
  Discharge ... 78

Goose Creek near Wagon Wheel Gap—
  Description ... 160
  Discharge ... 181

Grape Creek near Westcliffe—
  Description ... 122
  Discharge ... 142

Green River Basin Stream Flow Data ... 300–313

Green River near Linwood, Utah—
  Description ... 300
  Discharge ... 305

Grizzly Creek near Walden—
  Description ... 55
  Discharge ... 100

Gunnison River near Grand Junction—
  Description ... 229
  Discharge ... 288

Gunnison River at Iola—
  Description ... 227
  Discharge ... 285

H

Holly Drain at State Line near Holly—
  Description ... 128
  Discharge ... 156

Huerfano River at Badito—
  Description ... 124
  Discharge ... 147

Huerfano River at Manzanares Crossing—
  Description ... 123
  Discharge ... 146

Huerfano River near Undercliffe—
  Description ... 124
  Discharge ... 148

Hydrographic Department, Report of ... 31

I

Illinois Creek near Rand—
  Description ... 58
  Discharge ... 107

Page

- Illinois Creek at Walden—
  - Description 59
  - Discharge 108
- Interstate River Suits 30
- Interstate River Negotiations 22

K

- Kannah Creek near Whitewater—
  - Description 231
  - Discharge 294
- Kerber Creek at Ashley Ranch near Villa Grove—
  - Description 171
  - Discharge 206

L

- La Garita Creek near La Garita—
  - Description 170
  - Discharge 203
- La Jara Creek at Gallegos Ranch, near Capulin—
  - Description 164
  - Discharge 188
- Lake Fork at Gateview—
  - Description 227
  - Discharge 284
- La Plata River Compact 21
- La Plata River at Colorado-New Mexico Line—
  - Description 326
  - Discharge 355
- La Plata River at Hesperus—
  - Description 325
  - Discharge 354
- Laramie River near Glendevey—
  - Description 61
  - Discharge 114
- Laramie River near Jelm, Wyoming—
  - Description 62
  - Discharge 115
- Laramie River Administration 13
  - Diversions by Ditches 368–374
- Left Hand Creek at Mouth near Longmont—
  - Description 51
  - Discharge 91
- Leroux Creek near Cedaredge—
  - Description 229
  - Discharge 289
- Letter of Transmittal 2
- Lightner Creek near Durango—
  - Description 324
  - Discharge 352
- Little Grizzly Creek at Mouth, near Hebron—
  - Description 56
  - Discharge 101
- Little Navajo River at Chromo—
  - Description 319
  - Discharge 340
- Little Snake River near Dixon, Wyoming—
  - Description 301
  - Discharge 307

Page

Little Snake River near Lily—
- Description 301
- Discharge 308

Los Pinos River near Ortiz—
- Description 169
- Discharge 200

Los Pinos River below Snowslide Canon near Weminuche Pass—
- Description 321
- Discharge 345

M

Mancos River, East, West and Middle—
- Description 327–328
- Discharge 357–359

Mancos River near Towaoc—
- Description 328
- Discharge 360

Meadow Creek near Tabernash—
- Description 216
- Discharge 256

Michigan River at Haworth School near Lindland—
- Description 60
- Discharge 110

Michigan River near Lindland—
- Description 59
- Discharge 109

Michigan River near Cowdrey—
- Description 61
- Discharge 112

Michigan River at Walden—
- Description 60
- Discharge 111

Middle Boulder Creek at Nederland—
- Description. 48
- Discharge 85

Middle Fork of Ranch Creek near Fraser—
- Description 215
- Discharge 254

Middle Mancos River near Mancos—
- Description 327
- Discharge 358

Mineral Creek near Silverton—
- Description 324
- Discharge 350

Moffat Tunnel Trans-mountain Diversion 364–373

Monument Creek at Pikeview—
- Description 122
- Discharge 144

N

Navajo River at Banded Peak Ranch near Chromo—
- Description 318
- Discharge 337

Navajo River near Chromo—
- Description 318
- Discharge 338

- Navajo River at Edith—
  - Description 318
  - Discharge 339
- North Clear Creek below Continental Reservoir—
  - Description (see "Clear Creek") 160
  - Discharge 180
- North Crestone Creek near Crestone—
  - Description 172
  - Discharge 207
- North Fork Gunnison River near Somerset—
  - Description 228
  - Discharge 286
- North Fork of North Platte River near Walden—
  - Description 58
  - Discharge 105
- North Fork of Ranch Creek near Fraser—
  - Description 215
  - Discharge 253
- North Fork of Republican River near Wray—
  - Description 54
  - Discharge 98
- North Fork of Republican River at Colorado-Nebraska Line—
  - Description 55
  - Discharge 99
- North Fork St. Vrain Creek at Longmont Dam—
  - Description 49
  - Discharge 88
- North Fork South Platte River at South Platte—
  - Description 39
  - Discharge 67
- North Platte River near North Gate—
  - Description 57
  - Discharge 104
- North Platte River near Walden—
  - Description 57
  - Discharge 103

O

- Officers and Employees, List of 7

P

- Piedra River at Bridge Ranger Station near Pagosa Springs—
  - Description 319
  - Discharge 341
- Piedra River near Dyke—
  - Description 320
  - Discharge 342
- Pine River (Los Pinos) near Bayfield—
  - Description 322
  - Discharge 346
- Pine River (Los Pinos) at Ignacio—
  - Description 322
  - Discharge 347
- Pinos Creek near Del Norte—
  - Description 161
  - Discharge 183
- Plateau Creek near Cameo—
  - Description 223
  - Discharge 274

Page

Plateau Creek near Collbran—
    Description 222
    Discharge 273

Platte River Basin Stream Flow Data 38–115

Purgatoire River at Highland Dam, near Las Animas—
    Description 127
    Discharge 154

Purgatoire River at Nine Mile Dam, near Higbee—
    Description 126
    Discharge 153

Purgatoire River at Trinidad—
    Description 126
    Discharge 152

Q

Quartz Creek near Ohio—
    Description 226
    Discharge 282

R

Ranch Creek above Forks near Fraser—
    Description 214
    Discharge 250

Ranch Creek near Fraser—
    Description 214
    Discharge 251

Ranch Creek near Tabernash—
    Description 214
    Discharge 252

Related Run-off in Percentage of Normal for Streams in Colorado 37

Republican River Compact 25

Reservoirs, Dams, New Construction, Repairs, Failures, Resurveys 18–20

Rio Blanco near Pagosa Springs—
    Description 317
    Discharge 335

Rio Grande Compact 22

Rio Grande River at Alamosa—
    Description 159
    Discharge 177

Rio Grande River Basin Stream Flow Data 157–207

Rio Grande River near Del Norte—
    Description 158
    Discharge 175

Rio Grande River near Lobatos—
    Description 159
    Discharge 179

Rio Grande River at Monte Vista—
    Description 158
    Discharge 176

Rio Grande River at Thirty Mile Bridge, near Creede—
    Description 157
    Discharge 173

Rio Grande River above Mouth of Trinchera Creek, near Las Sauses—
    Description 159
    Discharge 178

Rio Grande River at Wason, below Creede—
    Description 157
    Discharge 174

Page

- Rito Blanco near Pagosa Springs—
  - Description 317
  - Discharge 336
- Roaring Fork River at Aspen—
  - Description 220
  - Discharge 268
  - Correction Table for Twin Lakes Trans-mountain Diversion 269
- Roaring Fork River at Glenwood Springs—
  - Description 221
  - Discharge 270
- Roaring Fork River near Walden—
  - Description 56
  - Discharge 102
- Rock Creek near Monte Vista—
  - Description 162
  - Discharge 185
- Roubideau Creek near Delta—
  - Description 232
  - Discharge 295
- Roubideau Creek at Mouth near Delta—
  - Description 232
  - Discharge 296
- Run-off in Percentage of Normal for Streams in Colorado 37

S

- Saguache Creek near Saguache—
  - Description 171
  - Discharge 205
- Sand Creek—
  - Administration 13
- St. Charles River at San Isabel—
  - Description 123
  - Discharge 143
- St. Louis Creek near Fraser—
  - Description 213
  - Discharge 249
- St. Vrain Creek at Lyons—
  - Description 50
  - Discharge 89
- St. Vrain Creek at Mouth, near Platteville—
  - Description 50
  - Discharge 90
- San Antonio River at Mouth, near Manassa—
  - Description 168
  - Discharge 199
- San Antonio River at Ortiz—
  - Description 168
  - Discharge 198
- San Francisco Creek near Del Norte—
  - Description 162
  - Discharge 184
- Sangre de Cristo Creek near Fort Garland—
  - Description 165
  - Discharge 192
- San Juan River Basin Stream Flow Data 314–360
- San Juan River near Pagosa Springs—
  - Description 314
  - Discharge 329

Page

- San Juan River at Pagosa Springs—
  - Description 314
  - Discharge 330
- San Juan River at Rosa, New Mexico—
  - Description 315
  - Discharge 331
- San Juan River, West Fork, near Pagosa Springs—
  - Description 316
  - Discharge 333
- San Juan River West Fork above Born's Lake near Pagosa Springs—
  - Description 315
  - Discharge 332
- Slater Fork near Slater—
  - Description 301
  - Discharge 309
- Snake River at Dillon—
  - Description 219
  - Discharge 266
- South Arkansas River near Salida—
  - Description 121
  - Discharge 141
- South Boulder Creek near Eldorado Springs—
  - Description 48
  - Discharge 84
- South Fork of Ranch Creek near Winter Park—
  - Description 216
  - Discharge 255
- South Fork Rio Grande River at South Fork—
  - Description 161
  - Discharge 182
- South Platte River above Lake Cheesman—
  - Description 39
  - Discharge 65
- South Platte River below Lake Cheesman—
  - Description 39
  - Discharge 66
- South Platte River above Eleven Mile Canon Reservoir near Hartsel—
  - Description 38
  - Discharge 63
- South Platte River near Lake George—
  - Description 38
  - Discharge 64
- South Platte River at Balzac—
  - Description 43
  - Discharge 75
- South Platte River at Denver—
  - Description 41
  - Discharge 70
- South Platte River at Fort Lupton—
  - Description 42
  - Discharge 72
- South Platte River at Henderson—
  - Description 41
  - Discharge 71
- South Platte River at Julesburg—
  - Description 44
  - Discharge 76
- South Platte River near Kersey—
  - Description 42
  - Discharge 73

South Platte River at South Platte— Page
Description 40
Discharge 68

South Platte River at Sublette—
Description 43
Discharge 74

South Platte River at Waterton—
Description 40
Discharge 69

Strawberry Creek near Granby—
Description 216
Discharge 257

Stream Flow Records.. 35–360

Stream Gaging Stations, Descriptions of.............38–62, 116–128, 157–172
208–234, 300–304, 314–328

Surface Creek at Cedaredge—
Description 230
Discharge 290

T

Table of Contents.. 5

Tarryall Creek near Lake George—
Description 44
Discharge 77

Taylor River at Almont—
Description 224
Discharge 278

Taylor River below Taylor Park Reservoir—
Description 224
Discharge 277

Ten Mile Creek at Dillon—
Description 220
Discharge 267

Tomichi Creek at Gunnison—
Description 226
Discharge 281

Tomichi Creek at Sargents—
Description 225
Discharge 280

Trans-mountain Diversions.........................364, 366, 373, 423, 430

Trinchera Creek above Mountain Home Reservoir near Fort Garland—
Description 164
Discharge 190

Trinchera Creek below Smith Reservoir near Blanca—
Description 165
Discharge 191

Trinchera Creek above Turner's Ranch near Fort Garland—
Description 164
Discharge 189

Turkey Creek near Pagosa Springs—
Description 316
Discharge 334

U

Page

- Uncompahgre River at Colona—
  - Description ... 231
  - Discharge ... 291
- Uncompahgre River at Delta—
  - Description ... 231
  - Discharge ... 293
- Ute Creek at Forks near Fort Garland—
  - Description ... 166
  - Discharge ... 193
- Ute Creek near Fort Garland—
  - Description ... 166
  - Discharge ... 194

V

- Vasquez Creek near Winter Park—
  - Description ... 213
  - Discharge ... 247
  - Correction Table for Diversions by Moffat Tunnel ... 248

W

- Water Commissioners, List of ... 8–9
- Water Supply, Seasonal and Crop Conditions ... 17
- Weminuche Creek near Bridge Ranger Station near Pagosa Springs—
  - Description ... 321
  - Discharge ... 344
- West Divide Creek below Willow Creek near Raven—
  - Description ... 222
  - Discharge ... 272
- West Mancos River near Mancos—
  - Description ... 328
  - Discharge ... 359
- West Fork San Juan River above Born's Lake near Pagosa Springs—
  - Description ... 315
  - Discharge ... 332
- West Fork San Juan River near Pagosa Springs—
  - Description ... 316
  - Discharge ... 333
- White River near Meeker—
  - Description ... 302
  - Discharge ... 310
- White River near Watson, Utah—
  - Description ... 302
  - Discharge ... 311
- Wild Horse Creek near Holly—
  - Description ... 127
  - Discharge ... 155
- Williams Creek near Bridge Ranger Station near Pagosa Springs—
  - Description ... 320
  - Discharge ... 343
- Williams Fork River near Leal—
  - Description ... 217
  - Discharge ... 260–261
- Williams Fork River near Parshall—
  - Description ... 218
  - Discharge ... 262–263

Williams Fork River below Steelman Creek—
Description 217
Discharge 258–259

Williams Fork Tunnel Diversions 373

Willow Creek near Granby—
Description 211
Discharge 242

Willow Creek near Rand—
Description 58
Discharge 106

Y

Yampa River near Maybell—
Description 303
Discharge 313

Yampa River at Steamboat Springs—
Description 309
Discharge 312

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